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62.09

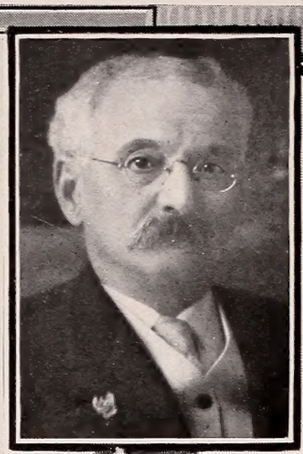
Germain

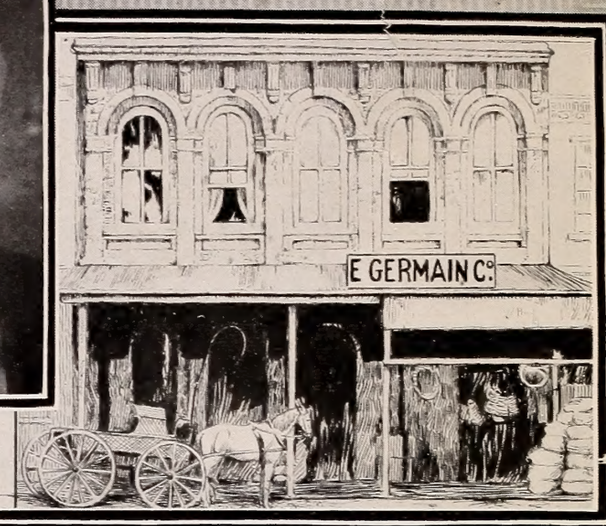
FIFTY YEARS
SINCE 1871

RECEIVED
JAN 24 1921
U.S. Department of Agriculture

LOS ANGELES
1921

"grow your own"





EUGENE GERMAIN

in 1871 started in business, on North Main Stret, near Requena Street, in the small building shown in the upper right hand corner of this page, under the name of E. Germain Company.

From this small beginning in a Mexican Pueblo the present institution of our Metropolis, the Germain Seed & Plant Company has developed.

Moving first to 153 South Main Street the firm transacted its affairs there for twenty years until its growth made larger and better located quarters desirable. Then for another twenty years at 326-328-330 South Main Street the business grew to such proportions that a segregation of the wholesale and manufacturing departments from its retail department became a necessity. Convenient locations and better facilities were sought.

In 1918 the Germain Seed & Plant Company leased the Northeast corner of Sixth & Main Streets (shown in the upper left hand corner) than which there is no more logical and convenient location for its city patrons and its suburban customers. Close to the shopping district, adjacent to the Pacific Electric Station, its convenience is ideal.

The lower picture shows the jobbing and manufacturing plant at 739-741-743-745-747 Terminal Street, in the Union Terminal Buildings adjoining the Union Terminal Market on Central Avenue between Seventh and Eighth Sreets.

And now at the beginning of our fiftieth year of catering to the needs of the farmers, ranchers, poultry raisers, gardeners and home gardeners of the Southwest, we wish to assure our many patrons that, with our present facilities, we will be able to serve them in a much more efficient and satisfactory way, with the high quality of seeds and other merchandise that has made the success of this Firm during the last fifty years.

M. L. GERMAIN

HOW to make out Your Order

Germain Established 1871 SEED & PLANT CO.
LOS ANGELES, CALIFORNIA

Name George Rice Jr.
Post Office R.F.D. 296 El Monte
County Los Angeles State Cal.
How Goods are to be sent? Mail Yes Express ~~Express~~ Freight ~~Freight~~
What ~~Express Office~~ ~~Freight Depot~~

Our Check	Pkt.	Oz.	Lb.	Name of Articles Wanted	Total Amount of Order	
			6	Germains Improved White		
				Kentucky Wonder Bean	2	40
		1		Germains Winter Queen Tomato		50
	1			Casads Improved Muskmelon		25

Germain Established 1871 SEED & PLANT CO.
LOS ANGELES, CALIFORNIA

Name _____

Post Office _____

County _____ State _____

How Goods are to be sent? Mail _____ Express _____ Freight _____

What Express Office _____ Freight Depot _____

PRICES. Our prices include postage, or expressage prepaid, on seed items, up to and including one pound except where otherwise noted. Exceptions appear under main headings as follows:

NOTE. Prices on half-pound and pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. If quantities are desired, do not fail to write for special prices.

C. O. D. ORDERS. Must be accompanied by a remittance equal to one-fourth of the amount of the order, excepting on nursery stock. Instructions on this latter item will be found on the special order sheet for plants.

PLANTS. Do not order plants on this sheet. Plants and seed orders should be kept separate, as we cannot ship them together. During our rush season the Horticultural Inspectors are so busy that they often delay us up to five days. In cases where the nursery stock cannot be shipped at once, the seed orders will be shipped immediately, and the balance of the order will follow when ready. Please use the special sheet for plant orders.

ORDER EARLY. It is important that you order as soon after receipt of this catalogue as convenient. We are often hard pressed with orders during the tremendous rush of the spring season, and as all orders are filled in rotation, you will be sure of having your seeds and plants when you want them.

We exercise every care in the selection of the seeds we offer and to this end maintain at a great expense, a Trial Grounds, where extensive tests are made of our seeds. We will not knowingly send out anything but seed of the highest quality and germination, but as a protection against conditions over which we have no control, all sales of seeds, bulbs, plants, trees, etc., are made subject to the following non-warranty:

NON-WARRANTY. The Germain Seed and Plant Company gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of seeds, bulbs, plants or trees they send out, and they will not be responsible in any way for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

DOMESTIC PARCEL POST RATES On seeds, plants, bulbs, roots, books tools, etc., within the U. S. and possessions	First lb. or fraction	Each add'l lb. fraction
First Zone—Los Angeles and within 50 miles	5c	1c
Second Zone, within 50 to 150 miles....	5c	1c
Third Zone, within 150 to 300 miles....	6c	2c
Fourth Zone, within 300 to 600 miles....	7c	4c
Fifth Zone, within 600 to 1000 miles....	8c	6c
Sixth Zone, within 1000 to 1400 miles....	9c	8c
Seventh Zone, within 1400 to 1800 miles....	11c	10c
Eighth Zone, all over 1800 miles....	12c	12c

For parcels weighing 8 ounces or less, containing seeds, bulbs or books only, the rate of postage to all zones is 1 cent for 2 ounces or fraction. (Over 8 ounces the parcels post rates apply.)

For parcels containing fourth class matter—other than the above—up to 4 ounces is permitted to all zones at 1 cent per ounce. (Over 4 ounces the above zone rates apply.)

Correspondents in foreign countries should add postage at the rate of 12 cents per pound.

Our Check	Pkt.	Oz.	Lb.	Name of Articles Wanted	Total Amount of Order	
				PLANTS should not be ordered on this sheet		
				CARRIED FORWARD		

(See Over)

Our Check	Pkt.	Oz.	Lb.	Name of Articles Wanted	Total Amount of Order	
				BROUGHT FORWARD		

HOW to make out Your Order

Germain Established 1871 SEED & PLANT CO.
LOS ANGELES, CALIFORNIA

Name George Rice Jr.
Post Office R.F.D. 296 El Monte
County Los Angeles State Cal.
How Goods are to be sent? Mail Yes Express ~~Express~~ Freight ~~Freight~~
What ~~Express Office~~ ~~Freight Depot~~

Our Check	Quantity Wanted	Name of Articles Wanted	Total Amount of Order	
		PLANTS only should be ordered on this sheet.		
	100	Pansy Plants	$2	00
	4	Arizona Ash	4	00

Germain Established 1871 SEED & PLANT CO.
LOS ANGELES, CALIFORNIA

Name _____

Post Office _____

County _____ State _____

How Goods are to be sent? Mail _____ Express _____ Freight _____

What Express Office _____ Freight Depot _____

PLANT AND SEED ORDERS SHOULD BE KEPT SEPARATE. Special order sheets for both plants and seeds are furnished. If this procedure is not followed, orders must be separated by us, thus causing some delay in your order. **Seeds will be mailed as soon as possible.** Plant orders are subject to some delays.

PRICES. All prices on plants, unless otherwise noted, are F. O. B. Los Angeles.

DELAY NOTICE. Plants are sent directly from our Montebello Nurseries, subject to about five days' delay on account of compliance with the requirements of the Horticultural Inspector, as we obtain an inspection certificate before shipping. The rush of business is so terrific during the winter and spring in the Nursery Department that orders cannot always be shipped at once. Shipment will be made, however, at the earliest possible moment.

IMPORTANT. When a customer is not located at a county seat, we find it cheaper and quicker to make shipment by express instead of mail. We reserve the right to exercise our own judgment as to best method of shipment, according to size of stock, weight, etc., ordered. We always aim to serve our customers' best interests in this matter. If this is not in accordance with your wishes, please advise us.

ORDER EARLY. It is important that you order as soon after receipt of this catalogue as convenient. We are often hard pressed with orders during the tremendous rush of the spring season, and as all orders are filled in rotation, you will be sure of having your seeds and plants when you want them.

We exercise every care in the selection of the seeds we offer and to this end maintain at a great expense, a Trial Grounds, where extensive tests are made of our seeds. We will not knowingly send out anything but seed of the highest quality and germination, but as a protection against conditions over which we have no control, all sales of seeds, bulbs, plants, trees, etc., are made subject to the following non-warranty:

NON-WARRANTY. The Germain Seed and Plant Company gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of seeds, bulbs, plants or trees they send out, and they will not be responsible in any way for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

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First Zone—Los Angeles and within 50 miles	5c	1c
Second Zone, within 50 to 150 miles....	5c	1c
Third Zone, within 150 to 300 miles....	6c	2c
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Seventh Zone, within 1400 to 1800 miles....	11c	10c
Eighth Zone, all over 1800 miles....	12c	12c

For parcels weighing 8 ounces or less, containing seeds, bulbs or books only, the rate of postage to all zones is 1 cent for 2 ounces or fraction. (Over 8 ounces the parcels post rates apply.)

For parcels containing fourth class matter—other than the above—up to 4 ounces is permitted to all zones at 1 cent per ounce. (Over 4 ounces the above zone rates apply.)

Correspondents in foreign countries should add postage at the rate of 12 cents per pound.

Our Check	Quantity Wanted	Name of Article Wanted	Total Amount of Order	
		PLANTS only should be ordered on this sheet		
		CARRIED FORWARD		

[See Over]

Our Check	Quantity Wanted	Name of Articles Wanted	Total Amount of Order
		BROUGHT FORWARD	

GENERAL DIRECTIONS TO OUR PATRONS

SEEDS BY MAIL

IMPORTANT NOTE—The weight limits in the 1st, 2nd and 3rd zones have been increased to 70 pounds; in other zones the limit is now 50 pounds

Parcels Post — Since the installation of the new parcels post law seeds, bulbs, tools, plants and garden supplies (excepting poisons and liquids) may be sent by mail to all parts of the United States, including Alaska, Canal Zone, Guam, Hawaii, Porto Rico and the Philippines. Packages are subject to a limit of maximum weight in the first and second and third zone of 70 pounds; in all other zones of 50 pounds. The maximum size of a package is 84 inches for length and largeness of the girth combined.

Zone Rates — May be had by applying to your postmaster, who will tell you which zone you are in with reference to Los Angeles or upon application we will tell you if you supply us with the name of your postoffice.

For Parcels Weighing 8 Ounces or Less, containing seeds, bulbs or books only, the rate of postage to all zones is 1 cent, for 2 ounces or fraction. (Over 8 ounces the parcels post rates apply).

For Parcels Containing Fourth Class Matter — other than the above — up to 4 ounces is permitted to all zones at 1 cent per ounce. (Over 4 ounces the Parcel Post zone rates apply.)

On shipments weighing 20 pounds or more beyond the 2d postal zone it is cheaper to ship seeds by express. As the express companies give a receipt for each package, it amounts practically to insurance without cost, whereas it costs extra, according to value, to insure a parcel post package. We guarantee the safe arrival in the U. S. of all seeds shipped by express or insured parcel post.

If goods are wanted by parcel post, postage must be added as per table below, except for those quantities of seeds we offer to deliver free.

FREE DELIVERY

FOR CERTAIN QUANTITIES OF SEEDS

We Deliver Free in the United States and Possessions, by **Parcel Post or Express to any express office at our option all vegetable** and **Flower Seeds** by the **Packet, Ounce and ¼Pound, and up to and including ten pounds.**

Purchasers pay transit charges on larger quantities of seeds, and other merchandise, unless otherwise provided. When goods are wanted by Parcel Post, add postage for the quantities we do not deliver free (**see Zone Rates on this page.**)

Please Order Early, thus enabling us to forward promptly. It will hasten forwarding materially, if customers will kindly make up orders alphabetically, as the goods are listed that way in the catalogue. Seeds are also put in compartments in our stores alphabetically, hence an order can be filled more quickly if it is made out in that manner.

Counter Customers — We suggest to those who purchase in person at our store the advantage of having their lists made out before they call. They may be left and called for later, taken at once, or shipped. In any case it is a great saving of time to the purchaser. The list should have full name and address written on it so that our catalogues may be mailed to the purchaser as issued. We also urge early purchases.

Error in the Filling of Orders — We use the greatest care in filling, checking and packing orders. Yet should anything be omitted we will promptly forward when advised. Keep a duplicate copy of your order for comparison.

Remittances may be made by Express Money Order, P. O. Money Order or Bank Draft; if stamps or cash send in a Registered Letter. We must decline sending goods C. O. D. unless 25 per cent, of their value accompanies the order.

Accounts — Parties having no account with us — who order goods without remittance — must furnish satisfactory reference.

NON-WARRANTY

Success with seeds, bulbs and plants depends as much upon the proper planting, soil, water, weather and other conditions as upon the seed.

We exercise every care in the selection of the seeds we offer and to this end maintain, at a great expense, a Trial Grounds where extensive tests are made of our seeds. We will not knowingly send out anything but seed of the highest quality and germination, but, as a protection against conditions over which we have no control all sales of seeds, bulbs, plants, trees, etc., are made subject to the following non-warranty:

The Germain Seed and Plant Company gives no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of seeds, bulbs, plants or trees they send out, and they will not be responsible in any way for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

Testimonials from Customers — We are always pleased to hear from our customers regarding the results of their gardens. Photographs of gardens and particularly of vegetables and flowers, are thankfully received by us.

Questions and Correspondence — We endeavor to answer promptly all letters of inquiry — **which should be on separate paper from orders** — but we cannot undertake the planning of entire gardens and grounds.

ZONES		1st	2d	3rd	4th	5th	6th	7th	8th
Weight in Pounds	Local	Up to 50 miles from Los Angls.	50 to 150 miles from Los Angls.	150 to 300 miles from Los Angls.	300 to 600 miles from Los Angls.	600 to 1000 miles from Los Angls.	1000to 1400 miles from Los Angls.	1400to 1800 miles from Los Angls.	Over 1800 miles from Los Angls.
1	$0.05	$0.05	$0.05	$0.06	$0.07	$0.08	$0.09	$0.11	$0.12
2	.06	.06	.06	.08	.11	.14	.17	.21	.24
3	.06	.07	.07	.10	.15	.20	.25	.31	.36
4	.07	.08	.08	.12	.19	.26	.33	.41	.48
5	.07	.09	.09	.14	.23	.32	.41	.51	.60
6	.08	.10	.10	.16	.27	.38	.49	.61	.72
7	.08	.11	.11	.18	.31	.44	.57	.71	.84
8	.09	.12	.12	.20	.35	.50	.65	.81	.96
9	.09	.13	.13	.22	.39	.56	.73	.91	1.08
10	.10	.14	.14	.24	.43	.62	.81	1.01	1.20
11	.10	.15	.15	.26	.47	.68	.89	1.11	1.32
12	.11	.16	.16	.28	.51	.74	.97	1.21	1.44
13	.11	.17	.17	.30	.55	.80	1.05	1.31	1.56
14	.12	.18	.18	.32	.59	.86	1.13	1.41	1.68
15	.12	.19	.19	.34	.63	.92	1.21	1.51	1.80
16	.13	.20	.20	.36	.67	.98	1.29	1.61	1.92
17	.13	.21	.21	.38	.71	1.04	1.37	1.71	2.04
18	.14	.22	.22	.40	.75	1.10	1.45	1.81	2.16
19	.14	.23	.23	.42	.79	1.16	1.53	1.91	2.28
20	.15	.24	.24	.44	.83	1.22	1.61	2.01	2.40
21	.15	.25	.25	.46	.87	1.28	1.69	2.11	2.52
22	.16	.26	.26	.48	.91	1.34	1.77	2.21	2.64
23	.16	.27	.27	.50	.95	1.40	1.85	2.31	2.76
24	.17	.28	.28	.52	.99	1.46	1.93	2.41	2.88
25	.17	.29	.29	.54	1.03	1.52	2.01	2.51	3.00
26	.18	.30	.30	.56	1.07	1.58	2.09	2.61	3.12
27	.18	.31	.31	.58	1.11	1.64	2.17	2.71	3.24
28	.19	.32	.32	.60	1.15	1.70	2.25	2.81	3.36
29	.19	.33	.33	.62	1.19	1.76	2.33	2.91	3.48
30	.20	.34	.34	.64	1.23	1.82	2.41	3.01	3.60
31	.20	.35	.35	.66	1.27	1.88	2.49	3.11	3.72
32	.21	.36	.36	.68	1.31	1.94	2.57	3.21	3.84
33	.21	.37	.37	.70	1.35	2.00	2.65	3.31	3.96
34	.22	.38	.38	.72	1.39	2.06	2.73	3.41	4.08
35	.22	.39	.39	.74	1.43	2.12	2.81	3.51	4.20
36	.23	.40	.40	.76	1.47	2.18	2.89	3.61	4.32
37	.23	.41	.41	.78	1.51	2.24	2.97	3.71	4.44
38	.24	.42	.42	.80	1.55	2.30	3.05	3.81	4.56
39	.24	.43	.43	.82	1.59	2.36	3.13	3.91	4.68
40	.25	.44	.44	.84	1.63	2.42	3.21	4.01	4.80
41	.25	.45	.45	.86	1.67	2.48	3.29	4.11	4.92
42	.26	.46	.46	.88	1.71	2.54	3.37	4.21	5.04
43	.26	.47	.47	.90	1.75	2.60	3.45	4.31	5.16
44	.27	.48	.48	.92	1.79	2.66	3.53	4.41	5.28
45	.27	.49	.49	.94	1.83	2.72	3.61	4.51	5.40
46	.28	.50	.50	.96	1.87	2.78	3.69	4.61	5.52
47	.28	.51	.51	.98	1.91	2.84	3.77	4.71	5.64
48	.29	.52	.52	1.00	1.95	2.90	3.85	4.81	5.76
49	.29	.53	.53	1.02	1.99	2.96	3.93	4.91	5.88
50	.30	.54	.54	1.04	2.03	3.02	4.01	5.01	6.00
51	.30	.55	.55	1.06					
52	.31	.56	.56	1.08					
53	.31	.57	.57	1.10					
54	.32	.58	.58	1.12					
55	.32	.59	.59	1.14					
56	.33	.60	.60	1.16					
57	.33	.61	.61	1.18					
58	.34	.62	.62	1.20					
59	.34	.63	.63	1.22					
60	.35	.64	.64	1.24					
61	.35	.65	.65	1.26					
62	.36	.66	.66	1.28					
63	.36	.67	.67	1.30					
64	.37	.68	.68	1.32					
65	.37	.69	.69	1.34					
66	.38	.70	.70	1.36					
67	.38	.71	.71	1.38					
68	.39	.72	.72	1.40					
69	.39	.73	.73	1.42					
70	.40	.74	.74	1.44					

Insurance extra, 3c. for each package up to $5.00, 5c. up to $25.00, 10c. up to $50.00.

PARCEL POST WEIGHT LIMIT

The weight limit within the Local, 1st, 2d and 3rd Zones is seventy (70) pounds, within the other Zones it is fifty (50) pounds and the size limit eighty-four (84) inches for combined length and largest girth.

Packages of seed weighing 8 oz. or less can be forwarded anywhere in the U. S. at a cost of one cent for each two ounces, or fraction thereof.

GERMAIN'S PLANTING CHART

VARIETY	Seed for 100 ft. row	Seed for 1 acre	Time of Planting	Put Rows Apart	Leave Plts Apart in Row	Crop Matures in about	Depth of Planting
Artichoke, Globe	2 Pkts.	12 oz. T.	October to May	5 ft.	3 ft.	2nd Spring	1 inch
Artichoke, Plants	32 Plants	3000 P	Dec. to April	5 ft.	3 ft.	Next Spring	.....
Artichoke, Jerusalem	3 lbs.	300 lbs.	December to May	4 ft.	3 ft.	Late Summer	3 inches
Asparagus Seed	1 oz.	2 lbs. T.	February to May	6 ft.	3 ft.	Third Spring	1 inch
Asparagus Plants	32 Plants	11000 P	December to May	4 ft.	1 ft.	Next Spring	.....
Beans, Bush	1 lb.	60 lbs.	Jan. to September	3 ft.	6 in.	2 to 3 Months	1 to 2 inches
Beans, Pole	¾ lb.	50 lbs.	Jan. to September	3 ft.	1½ ft.	2 to 3 Months	1 to 2 inches
Beet, Table	2 oz.	10 lbs.	All year	2 ft.	6 in.	3 to 3½ Months	¾ inch
Beet Stock	2 oz.	8 lbs.	September to May	3 ft.	1 ft.	4 to 6 Months	1 inch
Broccoli	1 Pkt.	4 oz. T.	Nov. to April	2½ ft.	1 ft.	3½ Months	¼ inch
Brussels Sprouts	2 Pkts.	4 oz.	October to May	2½ ft.	1½ ft.	5 Months	½ inch
Cabbage, Early	1 Pkt.	8 oz. T.	All Year	2½ ft.	2 ft.	3 to 4 Months	½ inch
Cabbage, Late	1 Pkt.	8 oz. T.	All Year	2½ ft.	2 ft.	4 to 5 Months	½ inch
Carrot	1 oz.	4 lbs.	All Year	24 in.	6 in.	4 Months	¼ to ½ inch
Cauliflower	¼ oz.	4 oz. T.	June to January	3 ft.	2½ ft.	4 to 6 Months	½ inch
Celery	2 Pkts.	5 oz. T.	January to May	3 ft.	6 in.	4 to 5 Months	Very shallow
Celeriac	1 Pkt.	6 oz.	January to May	1 ft.	2½ ft.	.....	⅛ inch
Chervil	3 Pkts.	1 lb.	Jan. to August	30 in.	5 in.	2 Months	¼ inch
Chives	2 Pkts.	2 lbs.	September to May	30 in.	5 in.	3 to 4 Months	¾ inch
Collards	1 Pkt.	8 oz. T.	All Year	30 in.	15 in.	4 Months	½ inch
Chicory	2 Pkts.	4 lbs.	September to May	30 in.	8 in.	2 to 3 Months	¼ inch
Corn Salad	1 oz.	5 lbs.	Feb. to Nov.	30 in.	8 in.	2 to 3 Months	¼ inch
Corn, Sweet	½ lb.	10 lbs.	March to Sept.	36 in.	12 in.	2½ to 3 Months	1 inch
Cucumber	2 Pkts.	2 lbs.	March to Sept.	6 ft.	4 ft.	2 to 3 Months	1 inch
Dandelion	1 Pkt.	¾ lb.	Sept. to April	30 in.	10 in.	3 Months	⅛ inch
Egg Plant	1 Pkt.	4 oz. T.	January to August	30 in.	2 ft.	4 Months	½ inch
Endive	1 oz.	3 lbs.	August to May	30 in.	8 in.	3 Months	½ inch
Garlic (sets)	2 lbs.	300 lbs.	Sept. to March	30 in.	6 in.	5 to 6 Months	.....
Horse Radish	70 Plants	10000 P	December to May	30 in.	18 in.	6 Months	.....
Kale	2 Pkts.	2 lbs.	All Year	30 in.	18 in.	2 to 3 Months	½ inch
Kohlrabi	1 Pkt.	4 lbs.	All Year	30 in.	6 in.	4 Months	½ inch
Leek	½ oz.	4 lbs.	Sept. to April	24 in.	6 in.	4 Months	½ inch
Lettuce	3 Pkts.	3 lbs.	All Year	24 in.	8 in.	2 to 3 Months	½ inch
Melons, Musk	2 Pkts.	1½ lbs.	March to July	6 ft.	4 ft.	3 to 4 Months	1 inch
Melons, Water	1 oz.	2 lbs.	March to July	8 ft.	6 ft.	3 to 4 Months	1 inch
Mustard	1 Pkt.	2 lbs.	All Year	4 ft.	2½ ft.	3 to 5 Weeks	½ inch
Okra	1 oz.	8 lbs.	April to July	3 ft.	2 ft.	3 Months	1 inch
Onion seed	½ oz.	3 lbs.	Sept. to April	24 in.	5 in.	4½ to 6 Months	1 inch
Onion sets	2 lbs.	300 lbs.	All Year	18 in.	3 in.	2 to 4 Months	.....
Onion Seed for Sets	2 oz.	40 lbs.	All Year	2 ft.	Drill	2 to 3 Months	.....
Parsley	1 Pkt.	4 lbs.	All Year	24 in.	6 in.	3 Months	Very shallow
Parsnips	2 Pkts.	6 lbs.	All Year	30 in.	8 in.	4 Months	½ inch
Peas	1 lb.	75 lbs.	All Year	36 in.	3 in.	2 to 4 Months	2 inches
Pepper	1 Pkt.	6 oz. T.	January to July	36 in.	18 in.	3 to 4 Months	½ inch
Potatoes	5 lbs.	600 lbs.	Dec. to Sept.	36 in.	10 in.	2 to 3 Months	5 inches
Potatoes, Sweet	70 Plants	10000 P	March to July	36 in.	18 in.	3 to 4 Months	3 inches
Pumpkin	2 Pkts.	2 lbs.	March to August	10 ft.	8 ft.	3 to 4 Months	1 inch
Radish	1 oz.	12 lbs.	All Year	18 in.	3 in.	1 to 2 Months	½ inch
Rhubarb	2 Pkts.	4 ozs.	January to April	5 ft.	3 ft.	2nd Spring	½ inch
Rhubarb Roots	33 Roots	3000 P	December to May	5 ft.	3 ft.	Next Spring	2 inches
Salsify	.....	8 lbs.	February to Oct.	30 in.	4 in.	4 Months	1 inch
Spinach	1 oz.	20 lbs.	All Year	24 in.	2 in.	40 to 65 Days	1 inch
Squash, Bush	2 Pkts.	3 lbs.	February to Oct.	4 ft.	3 ft.	2 Months	1½ inch
Squash, Running	2 Pkts.	2 lbs.	February to Aug.	8 ft.	6 ft.	3 to 4 Months	1½ inch
Tomato, Seed	1 Pkt.	3 oz. T.	February to Aug.	5 ft.	3 ft.	4 to 5 Months	½ inch
Tomato, Plants	35 Plants	3000 P	March to Oct.	5 ft.	3 ft.	2 to 3 Months	.....
Turnip	2 Pkts.	4 lbs.	All Year	24 in.	6 in.	3 to 4 Months	½ inch
Turnip Swede or Rutabaga	2 Pkts.	3 lbs.	All Year	24 in.	8 in.	3 to 4 Months	½ inch

T.—In the quantity column means these varieties are to be sown in hot bed and transplanted to the field.

FIELD SEEDS	Lbs. per Acre
Alfalfa	20
Beans Field	
Tepary	10
Pink	30
Navy	20
Sojo	30
English or Broad	50
Buckwheat	30
Clover	
Alsike	10
Burr Clover	15
Crimson	15
Egyptian	15
Japanese	20
Melilotus Indica	20
Melilotus Alba	15
Red	15
White	12
Corn	
Field	10
Ensilage	75
Egyptian	6
Kaffir	6
Feterita	6
Milo Maize	6

FIELD SEEDS	Lbs. per Acre
Corn (Cont.)	
Egyptian Wheat	6
Broom	15
Flax	30
Grain	
Barley	100
Oats	80
Rye	60
Spelts	50
Grass	
Alfileria	5
Aus. Salt Bush	1½
Bermuda	10
Brome	20
Crested Dogstail	30
Ky. Blue for Pasture	50
Ky. Blue for Lawn	175
Orchard	35
Rye	10
Red Top	15
Timothy	20
Hungarian	30
Mesquite	35
Hemp	25

FIELD SEEDS	Lbs. per Acre
Grass (Cont.)	
Sudan Drill	3
Sudan Broadcast	10
Millets	
Pearl, Drills	6
Pearl, Broadcast	30
Common	30
German	30
Hungarian	40
Japanese	35
Siberian	30
Peas, Field	
Canadian	75
Blue Prussian	75
Garbanza	40
Lentils	40
Pea, Cow	
Whippoorwill	50
Blackeye	30
New Era	50
Peanuts in Shell	35
Rape	5
Rice	80
Sunflower	4

Catalog Prices Subject to Change Without Notice.

Due to extremely unsettled conditions in the seed market this year we find it necessary to make all catalog prices subject to change without notice. At all times we shall have in mind our customers' welfare, and prices will be consistent with the market.

SPACING AND NUMBER PLANTS PER ACRE

Distance Apart	No. of Trees or Plants per Acre	Dist. Apart	No. of Trees or Plants per Acre
3 by 4 in.	522,720	6 by 8 ft.	907
4 by 4 in.	392,040	6 by 9 ft.	806
6 by 6 in.	174,240	6 by 10 ft.	726
1 by 1 ft.	43,560	7 by 7 ft.	888
1½ by 1½ ft.	19,360	8 by 8 ft.	680
2 by 1 ft.	21,780	9 by 9 ft.	537
2 by 2 ft.	10,890	10 by 10 ft.	435
2½ by 2½ ft.	6,960	11 by 11 ft.	360
3 by 1 ft.	14,520	12 by 12 ft.	302
3 by 2 ft.	7,260	14 by 14 ft.	222
3 by 3 ft.	4,840	15 by 15 ft.	193
3½ by 3½ ft.	3,555	16 by 16 ft.	170
4 by 1 ft.	10,890	16½ by 16½ ft.	160
4 by 2 ft.	5,445	17 by 17 ft.	150
4 by 3 ft.	3,630	18 by 18 ft.	134
4 by 4 ft.	2,722	19 by 19 ft.	120
4½ by 4½ ft.	2,150	20 by 20 ft.	108
5 by 1 ft.	18,712	25 by 25 ft.	69
5 by 2 ft.	4,356	.....	...
5 by 3 ft.	2,904	30 by 30 ft.	48
5 by 4 ft.	2,178	33 by 33 ft.	40
5 by 5 ft.	1,742	40 by 40 ft.	27
5½ by 5½ ft.	1,440	50 by 50 ft.	17
6 by 6 ft.	1,200	60 by 60 ft.	12
6½ by 6½ ft.	1,031	66 by 66 ft.	10
6 by 7 ft.	1,031		

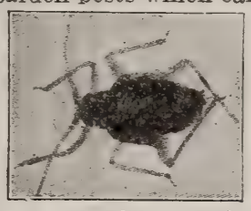
Germain's 'Garden Pest Control' Pointers

The matter of garden pests is of vital interest to everyone who is planting a garden, no matter how large or small. It is very disheartening, to say the least, to put in a lot of work and time in planting and taking care of a garden and have it visited by a large number of insects who seem intent upon destroying all the vegetation.

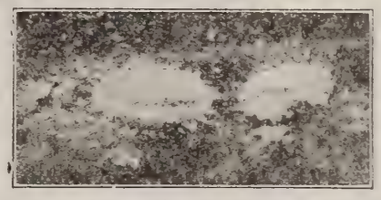
However, getting rid of these pests is a simple matter, provided one learns the rudiments of the game—and that is to learn the fact that insects are of different types requiring different methods of control and that there is no one particular remedy which is a cure-all for insect pests and plant diseases.

In general there are a number of different classes of garden pests which can be segregated as follows:

The photograph shows the common cutworm, a member of Class I. This pest is universal throughout the country and does an unusual amount of damage yearly. The best means of control is by the "Poison Bait" method, which is described in our book entitled "Garden Pests and Their Control". This book is mailed free of charge.



The very common and unpopular "Green Aphis" or "Green Louse" is shown above. This is the pest we find clustered thickly on the rose-buds in the spring of the year. This insect is a member of Class II and can easily be controlled by using a tobacco solution such as Floral Nicotine.



Above we have the well known "Mealy Bug," a member of Class II. The Mealy Bug belongs to the scale family and is a very hard insect to control. Lemon Oil Insecticide on tender plants, and Rosin Spray on more hardy ones are the best remedies.

Class 1. The Chewing Insect, or as otherwise known, the leaf-eating insects. In this class are found all caterpillars, beetles, worms, larva, grubs, etc. These destroy plant life by eating the plants. To control them it is only necessary to coat the plants with a thin layer of poison so that in eating the plant or any part of it they get some poison also and are quickly killed. This is the remedy used on practically all the apples that we eat to keep out the apple worm, on cabbage to keep out the cabbage worm, on potatoes against the potato beetle, on corn against the corn ear worm, and in many other instances.

Class 2. Another class is known as the **sucking insects.** The most common one of this type is the green aphis or louse that is always present on our rose bushes in the spring of the year. Instead of eating the plant, these insects have a mouth part acting like a mosquito's in that they thrust it underneath the surface of the leaf or the stem and suck the juice of the plant. In this class we find all the plant lice, all the scale insects, mealy bug, red spider, thrips, hoppers, and many, many others.

Class 3. The next class of garden troubles is known as the plant disease section. Here we find the common mildew, the blights, the rusts, and the various other fungous and bacterial diseases. The fungous diseases are comparatively easy to control, while the bacterial diseases such as walnut blight, pear blight, etc., are almost impossible to control.

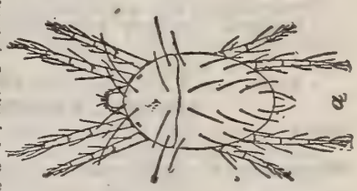
Class 4. There are also the classes among which are included the root worms which cannot be controlled by insecticides, and the rodents as typified by the gophers and squirrels.

At the bottom of this page you will find what is termed, "Germain's Spraying Guide." This has been prepared with great care and is comparatively easy to use. For example, if a plant is bothered with the green aphis, you will notice the column under 'Green Aphis," marks opposite Black Leaf 40, Floral Nicotine, Fish Oil Soap, and Sulpho Tobacco Soap, showing that any of these materials can be used effectively. The explanations for the letters used in the table are shown at the right hand side of the page.

The figure to the left shows the various stages in the life history of the "Codling Moth." This moth which is shown in the figure lays the egg which hatches out into the worm which we find so often in apples.

Use Corona Dry when the trees are in blossom.

The crumpled leaf shows the results of a fungous trouble common to peach trees, known as "Peach Leaf Curl." Use Soluble Sulphur, or Bordeaux Mixture just as buds are swelling in the spring.



Red Spider

Germain's Spraying Guide FOR Insect Pests, Etc.

	Class I Chewing Insects									
	Cabbage Worm	Canker Worm	Caterpillar	Codling Moth	Corn Ear Worm	Cucumber Beetle	Cut Worm	Grape Worm	Grasshopper	Tomato Worm
Black Leaf 40										
Bluestone										
Bordeaux Mixture										
Carbon Bisulphide										
Corona Dry	B	B	B	B	B	B	B	B	B	B
Corona Sulphur										
Fish Oil Soap										
Floral Nicotine										
Formaldehyde										
Lemon Oil										
Lime Sulphur										
Kilmol										
Nicofume Paper										
Poisoned Barley										
Rosin Spray										
Slug Shot	X					X				
Soluble Sulphur										
Sulpho Tobacco Soap										
Sulphur										
Talbot's Ant Powder										
Talbot's Bed Bug "										
Talbot's Roach "										
Tree Tanglefoot										
Watch-it-Get-Em Ant										
Bed Bug										
Roach										

	Class II. Sucking Insects														
	Black Aphis	Cabbage Worm	Grape Leaf Hopper	Green Aphis	Thrips	Wooly Aphis	Black Scale	Brown Scale	Purple Scale	Red Scale	Yellow Scale	Mealy Bug	Oyster Shell Scale	San Jose Scale
Black Leaf 40	X	X	X	X	X	X								
Bluestone														
Bordeaux Mixture														
Carbon Bisulphide														
Corona Dry														
Corona Sulphur														
Fish Oil Soap				X										
Floral Nicotine	X	X	X	X	X	X								
Formaldehyde														
Lemon Oil	T	T	T	T	T	T	T	T	T	T	T	T		
Lime Sulphur													X	X
Kilmol														
Nicofume Paper	G		G	G	G									
Poisoned Barley														
Rosin Spray							B	B	B	B	B	B		
Slug Shot														
Soluble Sulphur													B	B
Sulpho Tobacco Soap	X	X	X	X	X									
Sulphur														
Talbot's Ant Powder														
Talbot's Bed Bug "														
Talbot's Roach "														
Tree Tanglefoot														
Watch-it-Get-Em Ant														
Bed Bug														
Roach														

	Class III. Diseases											
	Asparagus Rust	Blight	Gum Disease	Mildew	Moss-Lichens	Peach Leaf Curl	Pear Scab	Potato Blight	Potato Scab	Rust	Shot Hole Fungus
Black Leaf 40											
Bluestone											
Bordeaux Mixture	X	B	B	X		X	X	X		B	X
Carbon Bisulphide											
Corona Dry											
Corona Sulphur	B			B							
Fish Oil Soap											
Floral Nicotine											
Formaldehyde									B		
Lemon Oil											
Lime Sulphur		X		X	X	X	X	X		X	X
Kilmol											
Nicofume Paper											
Poisoned Barley											
Rosin Spray											
Slug Shot											
Soluble Sulphur		X		X	B	B	X	X		X	B
Sulpho Tobacco Soap											
Sulphur	X			X							
Talbot's Ant Powder											
Talbot's Bed Bug "											
Talbot's Roach "											
Tree Tanglefoot											
Watch-it-Get-Em Ant											
Bed Bug											
Roach											

	Miscellaneous									
	Red Spider	Slug Snails	Grain Smut	Weevil	Weeds	Ants	Bed Bugs	Roaches	Gophers	Squirrels
Black Leaf 40										
Bluestone			X							
Bordeaux Mixture										
Carbon Bisulphide				X					X	X
Corona Dry		X								
Corona Sulphur	B									
Fish Oil Soap										
Floral Nicotine										
Formaldehyde			X							
Lemon Oil										
Lime Sulphur	X									
Kilmol									B	B
Nicofume Paper										
Poisoned Barley										X
Rosin Spray										
Slug Shot		X								
Soluble Sulphur	X									
Sulpho Tobacco Soap										
Sulphur	X									
Talbot's Ant Powder						X				
Talbot's Bed Bug "							X			
Talbot's Roach "								X		
Tree Tanglefoot						X				
Watch-it-Get-Em Ant						B				
Bed Bug							B			
Roach								B		

B—Best material to use
T—Use on tender plants
G—For Greenhouse use
X—Commonly used

In general we recommend Corona Dry for Chewing insects and Floral Nicotine for plant lice. See back part of catalog for prices and description of materials.

Tables for Handy Reference on the Farm and in the Home

WEIGHTS PER BUSHEL

	Lbs.
Alfalfa	60
Artichokes, Jerusalem	60
Barley	48
Beans, bush and pole	60
Rye	56
Broom Corn Seed	46
Bran	20
Buckwheat	50
Canary Seed	60
Charcoal	22
Clover, Red, White and Alsike	60
Clover, Japanese	25
Corn, Egyptian	50
Corn, Jerusalem	50
Corn, Kaffir	50
Corn, Shelled	56
Corn, Pop	70
Flax Seed	56
Grass Seed, Blue	14
Grass Seed, Broom	14
Grass Seed, Crested Dogstail	20
Grass Seed, Hungarian	48
Grass Seed, Mesquite	7
Grass Seed, Orchard	14
Grass Seed, Red Top	14
Grass Seed, Rye Grass Perennial	20
Grass Seed, Rye Grass Italian	20
Grass Seed, Timothy	45
Hemp	44
Millet	50
Milo Maize	50
Onions	57
Onions, Sets	32
Peanuts	22
Peas, Round, Seeded	60
Peas, Wrinkled	56
Potatoes	60
Potatoes, Sweet	50
Beans, Castor	46
Sorghum	50
Vetches	60
Wheat	60

ANTIDOTES FOR POISONS

First—Send for a physician.

Second—Induce vomiting, by tickling throat with feather or finger; drinking hot water or strong mustard and water. Swallow sweet oil or whites of eggs.

Acids are antidotes for **Alkalies,** and vice versa.

SPECIAL POISONS AND ANTIDOTES

Acids—Muriatic, Oxalic, Acetic, Sulphuric (Oil of Vitrol), Nitric, (Aqua Fortis). } Soap-suds, magnesia, lime water.

Prussic Acid—Ammonia in water. Dash water in face.

Carbolic Acid } Whisky or dilute grain alcohol if obtainable, flour and water, mucilaginous drinks.

Alkalies—Potash, Lye, Hartshorn, Ammonia. } Vinegar or lemon juice in water.

Arsenic—Rat Poison, Paris Green. } Milk, raw eggs, sweet oil, lime-water, flour and water.

Bug Poison—Lead, Saltpetre, Corrosive Sublimate, Sugar of Lead, Blue Vitriol } Whites of eggs, or milk in large doses.

Chloroform—Chloral Ether. } Dash cold water on head and chest. Artificial respiration.

Carbonate of Soda—Copperas, Cobalt. } Soap suds and mucilaginous drinks.

Iodine—Antimony, Tartar Emetic. } Starch and water astringent infusions. Strong tea.

Mercury and its Salts: Whites of eggs, milk, mucilages.

HOW TO MEASURE HAY IN THE MOW OR STACK

A ton of dry hay is variously estimated from 400 to 500 cubic feet to the ton.

To be on the safe side it is best to estimate about 500 cubic feet to the ton.

Hay in the Mow

Rule—Multiply the length in feet by the height in feet, and this by the breadth in feet, and divide the result by 500 and you have the number of tons.

Example: How many tons of hay in a mow 20 feet long, 10 feet high, and 15 feet wide

Solution: $20 \times 10 \times 15 \div 500 = 6$. Ans.

How to Estimate the Number of Tons in a Stack

Rule—Multiply the length in feet by the width in feet, and this by one-half the height, and divide the product by 300.

Example: How many tons of hay in a stack 20 feet long, 12 feet high, and 15 feet wide

Solution: $20 \times 6 \times 15 \div 300 = 6$ tons. Ans.

How to Estimate the Contents of a Round Stack

Rule—Multiply the square of the distance around the stack in yards by 4 times the height in yards, and point off two places from the right, and this will be the number of cubic yards in the stack, which divided by 20 will equal the number of tons.

Example: How many tons of hay in a stack, distance around the bulge, 25 yards, and height, 9 yards

Solution: $25 \times 25 = 625$, then $625 \times 36 = 22{,}500$, pointing off two places makes 225, then $225 \div 20 = 11$— tons. Ans.

*Some authorities allow only 350 cubic feet for a ton of timothy hay when thoroughly settled. Others allow 343 to 420. For millet allow only 216 cubic feet to a ton. The fact is, hay in stack or mow can only be approximately ascertained by measurement.

HOW TO FIND THE NUMBER OF BUSHELS OF GRAIN IN A BIN OR BOX

Rule—Multiply the length in feet by the height in feet, and then again by the breadth in feet, and then again by 8, and cut off the right hand figure. The last result will be the number of bushels.

Example: How many bushels in a bin 12 feet long, 10 feet wide, and 6 feet high

Solution: $12 \times 10 \times 6 \times 8 = 576.0$. Ans.

Note—For exact results multiply the length in inches by the height in inches, and that again by the width in inches, and divide the result by 2150.4, the number of cubic inches in a bushel.

SHRINKAGE OF GRAIN

In deciding to keep their grain farmers should take into account the shrinkage. Wheat will shrink two quarts to the bushel in six months from the time it is threshed. Corn shrinks much more, the shrinkage being nearly one fifth of the whole amount. So that for corn forty cents from the field is as much as fifty cents in March. In the case of potatoes, the loss from October to May is about thirty-three per cent.

TABLES OF WEIGHTS AND MEASURES

Liquid or Wine Measure

4 gills make one pint, 2 pints make 1 quart, 4 quarts make 1 gallon, 81½ gallons make 1 barrel, 2 barrels make 1 hogshead.

Long Measure—Distance

3 barleycorns 1 inch, 12 inches 1 foot, 3 feet 1 yard, 5½ yards 1 rod, 40 rods 1 furlong, 8 furlongs 1 mile, 5,280 feet 1 mile, a knot or nautical mile, 6,086.7 feet, or about 1.18 mile.

Square Measure

144 square inches 1 square foot, 9 square feet 1 square yard, 30¼ square yards 1 square rod, 40 square rods 1 rood, 4 roods 1 acre, or 160 square rods 1 acre, 43,560 square feet 1 acre, 100 square feet 1 square.

Cubic Measure

1,728 cubic inches 1 cubic foot, 27 cubic feet 1 cubic yard, 128 cubic feet 1 cord (wood), 40 cubic feet 1 ton (shipping), 2,150.42 cubic inches 1 standard bushel, 291 cubic inches 1 standard gallon, 1 cubic foot four-fifths of a bushel.

Metric System

The unit of the Metric System is the meter 39.37 inches long; 1 kilometer = about ⅝ of a mile. The gram is the unit of weight, weighing 15½ avoirdupois grains; a kilogram weighs 2 1/5 pounds. The liter is the unit of measure of capacity and =.908 dry quart; a hectoliter equal about 26 gallons. A hectare equals 2.47 acres.

FERTILIZER — AMOUNTS TO USE

First find the number of square feet in space you wish to fertilize.

New Lawns	5 lbs. to 100 square feet
Old Lawns	3 lbs. to 100 square feet
Vegetable Garden	2 lbs. to 100 square feet
Grains	150–250 lbs. per acre
Vegetables	300–400 lbs. per acre
Fruit Trees	1 lb. per year in age of tree
Small Shrubs & Bushes	A handful every two months
Potted Plants	A teaspoonful every month

The above directions are for standard commercial fertilizer of a good grade. These will necessarily vary depending on the particular plant. For further information write us.

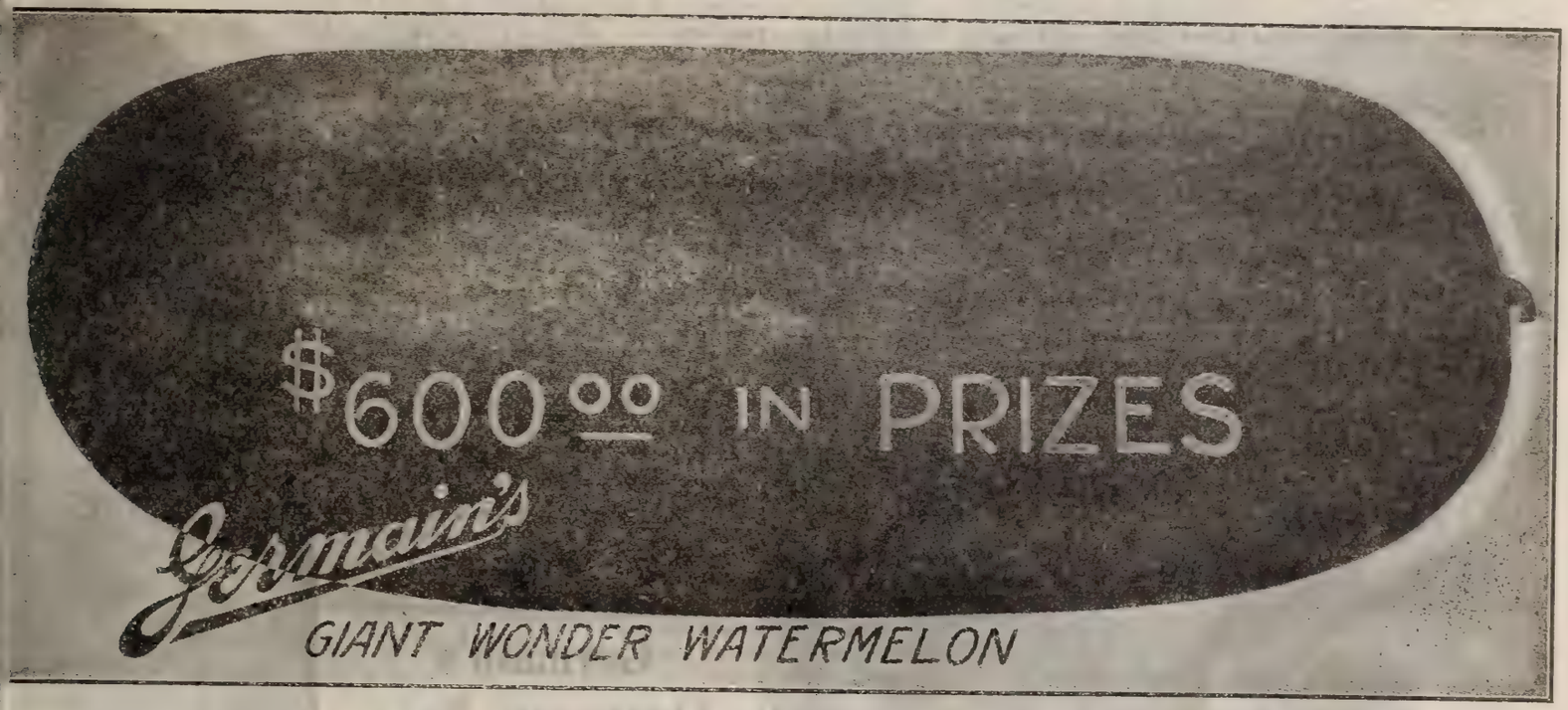
WHAT SIZE SILO SHOULD BE BUILT

In deciding upon what size silo to build it should be taken into consideration that a proper proportion should be observed between the diameter of the silo and the amount of stock to be fed.

These figures are based on a feeding period of one hundred and eighty days, feeding forty pounds per head per day, or three and one half tons per head for the period.

Outside Diameter	H'ght	Est. Capacity in Tons	Cattle	Acres	Outside Diameter	H'ght	Est. Capacity in Tons	Cattle	Acres
10	20	30	8	3	20	28	170	49	17
12	20	45	12	4	10	30	48	13	4
14	20	60	16	5	12	30	75	22	8
16	20	80	21	7	14	30	100	28	10
10	22	33	10	3	16	30	120	34	11
12	22	50	14	5	18	30	150	44	15
14	22	66	17	6	20	30	185	52	18
16	22	87	23	8	10	32	53	15	5
10	24	36	11	4	12	32	84	22	8
12	24	55	16	5	14	32	110	33	11
14	24	73	21	7	16	32	130	38	13
16	24	95	27	9	18	32	162	45	16
18	24	120	34	11	20	32	200	56	20
20	24	140	40	13	10	34	58	15	5
10	26	40	10	3	12	34	94	27	9
12	26	60	16	5	14	34	120	34	11
14	26	80	21	8	16	34	142	40	14
16	26	103	29	10	18	34	175	50	18
18	26	130	38	13	20	34	217	62	21
20	26	155	45	15	10	36	64	17	7
10	28	44	12	4	12	36	105	28	10
12	28	66	18	7	14	36	130	38	13
14	28	90	26	9	16	36	155	45	15
16	28	111	33	11	18	36	190	54	19
18	28	140	40	13	20	36	235	71	23

Germain's Giant Wonder Watermelon Contest



GERMAIN'S GIANT WONDER WATERMELON is the King of all melons. It is undoubtedly the largest, richest, eetest, juciest, all-around home and market garden watermelon yet introduced.

Can you imagine a watermelon weighing fifty (50) pounds and over? Not a mere giant but a super-giant.

This melon was not originated over night. Oh, no; it is the result of years and years of careful breeding and selection various strains of watermelons, and then to think that watermelons of this kind can be grown right in your own back yard! , Boy! Doesn't it make your mouth water? Buy a package of seed today. Get in the contest and win part of that. **We are ly offering this seed in packets this year, 20 cents per packet, postpaid.**

$600.00 IN CASH

This is the first season we have offered the seed of this wonderful melon to the public, and, to give it the introduction that leserves, we are offering 27 prizes totaling $600.00 cash money to the ones growing the 27 heaviest Giant Wonder Watermelons.

RULES OF THE CONTEST

This contest is open to anyone, anywhere, with the exception of the employees of the Germain Seed Company.

To enter this contest all that is necessary is that you purchase a package of GERMAIN'S GIANT WONDER WATER-ELON SEED, either direct from us or from any dealer that has Germain's packet seeds to sell.

An entry card is enclosed in each package, which must be carefully filled in, giving your name, address, name of dealer seed s purchased from, and so on. This card must be mailed to the Germain Seed Company, 747 Terminal Street, Los Angeles, lifornia, attention WATERMELON CONTEST MANAGER. The same will then be filed.

After you have grown your crop of melons, pick out the heaviest one and either bring or send to 747 Terminal Street, or our Retail Store at Sixth and Main Streets, Los Angeles. All melons sent from towns outside of Los Angeles must be sent us charges prepaid. Address them to Germain Seed Company, Los Angeles. Be sure to have your name and address on the kage. Only one melon can be entered by each contestant. All the melons entered become the property of the Germain Seed npany. The contest ends October 15, 1921, at midnight. The prizes will be awarded immediately thereafter. Prize win-s will be notified and our advertisements in daily papers will give names of prize winners.

DIVISION OF PRIZES

There will be twenty-seven prizes awarded to those having grown the twenty-seven heaviest melons. In case of a tie for of the prizes, we will award the full amount of the prize to each winner.

st Prize	**$100.00**	**Next Five Prizes, each**	**10.00**
ond Prize	**50.00**	**Next Twenty Prizes, each**	**5.00**

HOW TO INCREASE YOUR PRIZE MONEY ONE-HALF

Purchase five additional packets of Flower or Vegetable Seeds from us or from one of our dealers and send us the empty kets along with your entry card. If you are a winner of one of the prizes, we will then pay you one and one-half times the ount of the prize you win as outlined under the heading of "Division of Prizes."

Example: Should you be first prize winner we would pay you One Hundred ($100.00) Dollars plus Fifty ($50.00) Dol-, or One Hundred and Fifty ($150.00) Dollars. This same proportionate increase would apply on any prize you may win.

HOW TO DOUBLE YOUR PRIZE MONEY

Purchase ten additional packets of Flower or Vegetable Seeds and send us the empty packets along with your entry card. If are the winner of one of the prizes we will then pay you double the amount of the prize.

Example: Should you be first prize winner we would pay you One Hundred ($100.00) Dollars plus One Hundred ($100.00) lars, or Two Hundred ($200.00) Dollars.

Read about the Big Jim [5] Corn Contest on page 46

GERMAIN'S GIANT PODDED LIMA BEAN

We ascribe a large measure of our success to our willingness to look with favor on something new. Whenever a new variety of a standard vegetable is offered we invariably investigate it thoroughly if it seems to have merit. The **Giant Podded Lima Bean** was presented to us and as a result we are offering to our patrons this wonderful variety as being superior to any Pole Lima on the market both for its indescribably fine flavor and heavy producing quality. If you like Lima Beans and want a vigorous grower, a large pod, filled with more than the average number of large sized beans of rare flavor, be sure to plant **Germain's Giant Podded.** You'll never regret it. Prices: Packet, **15** cents; one pound, **55** cents; 10 pounds, **$5.00.** Postpaid.

The Giant Podded Beans grew very quickly and were simply loaded with pods. We have had several meals of them and they surely were good.
GERHARD I. WIECHRING, Salinas, Calif.

About the Giant Podded Lima Beans, I like them just fine. MRS. V. F. TURNER, Lemon Grove, Calif.

Will say they are satisfactory. All seed from Germain's have been satisfactory. D. J. SANDERS, Prado, Calif.

Had a couple of messes of the Giant Podded Limas and found them extra fine. W. E. STUMPH, El Cajon, Calif.

I must say they are fine. It is a very large bean, and I am very well pleased with them.
CHARLES BENTENRUST, Long Beach, Calif.

I will say they have grown very rank, and full of large pods. The beans are delicious. We are sure your praise of them is warranted.
MRS. W. A. HERSEY, Yorba Linda, Calif.

The Giant Podded Lima Bean Seed that I purchased from your seed house last spring proved in every way satisfactory. They produced an abundant crop of large well filled pods well filled with beans of excellent quality.
S. G. BROOKS,
San Diego, Calif.

Germain's Stratagem Peas

Germain's Stratagem Pea is unsurpassed in sweetness and its prolific bearing qualities. It has only recently come into prominence, being a comparatively new variety, and has had marked success ever since its introduction.

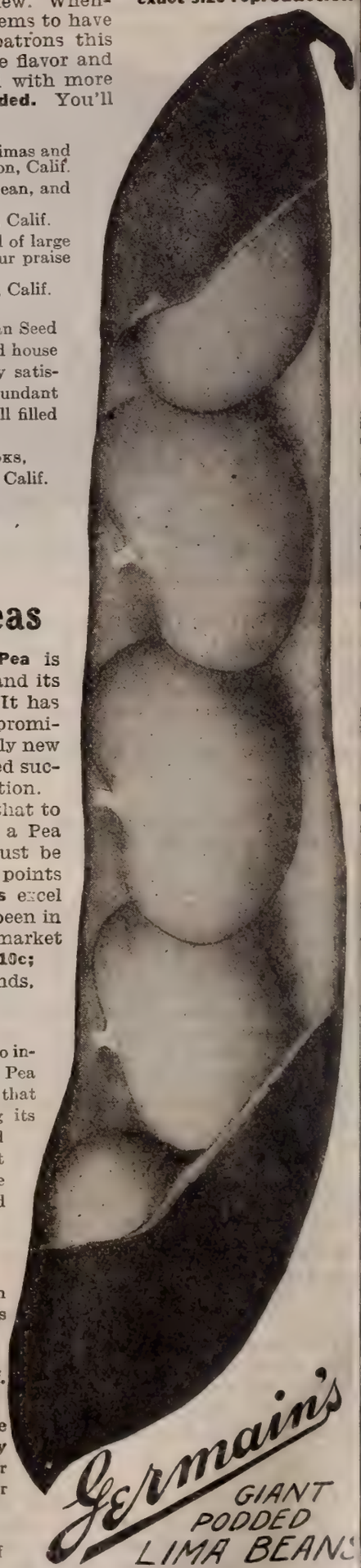
It goes without saying that to be commercially desirable a Pea must bear heavily and must be palatable. In both these points **Germain's Stratagem Peas** excel and for that reason it has been in such great demand among market gardeners. **Prices:** Packet, **10c;** one pound, **40c;** 10 pounds, **$3.50. Postage paid.**

It gives me great pleasure to inform you that the Stratagem Pea Seed fulfilled every expectation that your announcement regarding its excellence raised. Not only did the vines bear prolifically, but they kept on yielding when the rest of the garden had withered because of lack of water.
L. MOTT, Avalon, Calif.

Of the 100-lbs. of Strategem Peas, I harvested four tons of as fine as I ever saw or tasted.
ELMER G. BLOSSOM,
El Cajon, Calif.

I will surely recommend the Pea to anyone. One thing, they didn't mildew as do the other kinds, owing to us living so near the coast.
A. H. CHRISTENSEN,
Oxnard, Calif

This photograph is an exact size reproduction



For description of other Peas [6] see Page Thirty-six

Germain's Winnigstadt Cabbage

THE PROVEN STRAIN

We recommend **Germain's Winnigstadt Cabbage** for many easons, the most important of which are as follows:

SURE HEADER. Germain's Winnigstadt Cabbage is a strain hat has been improved upon year after year until we have a type hat is a sure header.

HARDINESS. Germain's strain, is a type that withstands et and cold, is as immune from disease as any one i able to get ; its rugged growth withstands the attacks of insect pests.

GOOD SHIPPER. It is a strain of seed that will enable you place on the market with the local or eastern houses a Cabbage hat is in fine condition and commands the highest prices. It as proven without a doubt, that it is the best keeper, and there- re the best Cabbage California can produce.

EARLINESS. It is the earliest of the early. It is the one that on the market before other strains. The first Cabbage from the eld is usually the Cabbage that commands the highest market rices, and if you desire to grow for an early market, you cannot ecure a type of Cabbage that will produce a crop earlier and more erfect than **Germain's strain of Winnigstadt Cabbage.**

Prices: Packet, **10** cents; ounce, **50** cents; ¼-pound, **$1.35;** one-pound, **$5.00.**

The Winnigstadt Cabbage Seed you sent me last spring came up splen- dly in large thrifty plants, and having more than I wanted I furnished my ighbors with plants. They are all unanimous in saying that the cabbage far superior to anything of the kind they have ever grown. They are solid, veet and very crisp and tender.

WILLIS E. STEADMAN, Inspiration, Ariz.

I wish to tell you that I had very good results from the Early Winnig- adt Cabbage Seed, and also with all the other seeds that I purchased from u.

MAIRA G. LIMA, San Luis Obispo, Calif.

The Winnigstadt Cabbage Seed did wonderfully. I have about velve heads of the cabbage yet.

WM. J. LEONARD, Isabella, Calif.

GERMAIN'S CANNON BALL CABBAGE

This is an early variety of the round-headed type, producing a very heavy crop. For uniformity of head, solid, compact nature, nd excellent quality it is unsurpassed. The meat is tender, the very few outer leaves make it a variety in great demand. It can be aced on the market as early as any other Cabbage, thus finding an exceptionally good market, invariably. Below we are reproducing field of **Cannon Ball Cabbage** showing the immensity of its growing properties. We recommend it.

Prices: Packet, **10** cents; ounce, **60** cents; ¼-pound, **$2.00;** one pound, **$6.00.**

The cabbage seed is all you advertised and am well pleased with the bbage, very fine flavor, sweet and juicy, and for me I always want the annon Ball Cabbage and no complaint to find with any other seed we urchased from your company.

W. L. BUTTERFIELD, Manzanar, Calif.

I was very well pleased with the Cannon Ball Cabbage Seed, and that the flavor of the cabbage is even better than I expected. It is, in fact, the best flavored cabbage I ever ate. I am going to try it as a variety winter cabbage. It is a splendid heading. I have been very well pleased with all the seeds and plants I have received from you.

MRS. FRANCIS WILSON, Petaluma, Calif.

CAULIFLOWER

GERMAIN'S STRAIN SNOWFLAKE CAULIFLOWER

For Cultural Directions, see page 23

This famous, unsurpassed variety was named and introduced by us.

Out of the many varieties of cauliflowers introduced and exhibited, we claim that Germain's Snowflake Cauliflower stands out supreme. It has the best appearance, best keeping qualities, it withstands the sudden climatic changes better than any other type and with its perfect leaf protection over the head, is a thoroughly bleached product of pure white, from whence it derives its name "Snowflake". It retains its snowflake appearance longer than any other strain, and those who have once grown it never fail to demand Germain's Snowflake Cauliflower. The heads are of good size and its constant uniformity in the field is so surprising that one would think it impossible to breed up a strain to this perfection.

GERMAIN'S EARLY SNOWFLAKE

This type should be planted from June fifteenth to the first of July. We, however, do not recommend the planting of cauliflower too early because of the possibility of its heading prematurely, and climatic conditions also have considerable to do with the success of the grower. In this early strain we have one that has proved very hardy under early climatic conditions.

Price: Packet 20c; ¼ oz. 65c; 1 oz. $2.00; ¼ lb. $6.65; 1 lb. $20.00

GERMAIN'S MEDIUM SNOWFLAKE

Plant from May twentieth to July fifth. This isthe money-maker for the market grower as it becomes ready for the market at the time when prices are best. Its trueness to type has endeared it to the experienced grower and he can confidently depend upon it. The market gardener demands this type and we have already booked many orders in advance.

Price: Packet 20c; ¼ oz. 65c; 1 oz. $2.00; ¼ lb. $6.65; 1 lb. $20.00

GERMAIN'S LATE SNOWFLAKE

Here we have a distinctive type which should be planted June 25th to August 25th. If planted too early it has a tendency to go into foliage and the grower will have additional expense and labor in taking care of his field. Earlier planting will not bring any earlier crop, as this type will not form its head until the proper season. Follow our suggestion as to the type to plant and the proper time to plant. By so doing you will save yourself considerable expense and labor. This is a taller plant than the other type as it grows to a height of three feet or more. It should be planted two feet apart in rows three feet apart.

Price: Packet 20c; ¼ oz. 65c; 1 oz. $2.00; ¼ lb. $6.65; 1 lb. $20.00

Note how the leaves curl over Germain's Snowflake Cauliflower and protect it from the elements, thus preserving the snow-white color that the best markets demand.

I planted some Snowflake Cauliflower Seed about a year ago and we thought it by far the best we had ever planted. The heads were large, solid, white and of good flavor. In comparing them with those we saw in the market we judged that ours were worth about twenty cents up to thirty-five cents apiece.

MRS. GEO. R. LIVINGSTON, Santa Barbara, Calif.

Germain's Oregon Evergreen Corn is the best type to grow in Southern California both for its quality and for its yield. We have a strain of specially selected seed that will afford you ears most palatable and delicious. There is none better than **Germain's Oregon Evergreen Corn,** whether you are a home gardener or a market gardener. It can be grown early or late and with ordinary care will give more than a satisfactory crop. This Corn is extra sweet and due to the tight-folding of its shucks, is as near corn-worm proof as any. **Prices:** Pkt. **10c,** 1 lb. **40c,** 10 lbs. **$3.50. Postpaid.**

The Oregon Evergreen Corn turned out fine. It gave us lots of fine large ears, and matured in good time. We planted at the same time two other varieties, and it surpassed both of them.
HUME BROS., Visalia, Calif.

I had good success with Oregon Evergreen. My neighbor had fine success, some stalks having four ears each, and others having three ears to the stalk. We can recommend this corn. L. STICE, Caliente, Calif.

I was very much pleased with the Oregon Evergreen Corn. There was very little rain in this section of the country this year, and all crops were poor. But in spite of the lack of abundant moisture, the Oregon Evergreen Corn on my place did real well. H. Z. SLY, Santa Maria, Calif.

I found this corn to be very satisfactory. It has good flavor, bears two to three ears to the stalk, and ripens just after the Golden Bantam. This latter feature makes it a valuable corn for the "home gardener." FRED B. TUTTLE, JR., Auburn, Calif.

My Evergreen Corn turned out good, and was very satisfactory in every way. Will plant some more Oregon Evergreen next spring. S. E. REINHARDT, Wilmington, Calif.

The Oregon Evergreen Corn Seed received from you gave me good satisfaction, as did all other seeds. I regard the Oregon Evergreen Sweet Corn as the best sweet corn grown save the Golden Bantam. W. S. PARK, Las Vegas, Nevada.

Germain's Brown Seeded Kentucky Wonder Beans

It would be hard to find a more appetizing Bean than this one. Sometimes, in fact very often, we find that the old standby the one we've known for years and years is still the best, and for that reason we are recommending this season the well known **Kentucky Wonder or Old Homestead Bean.**

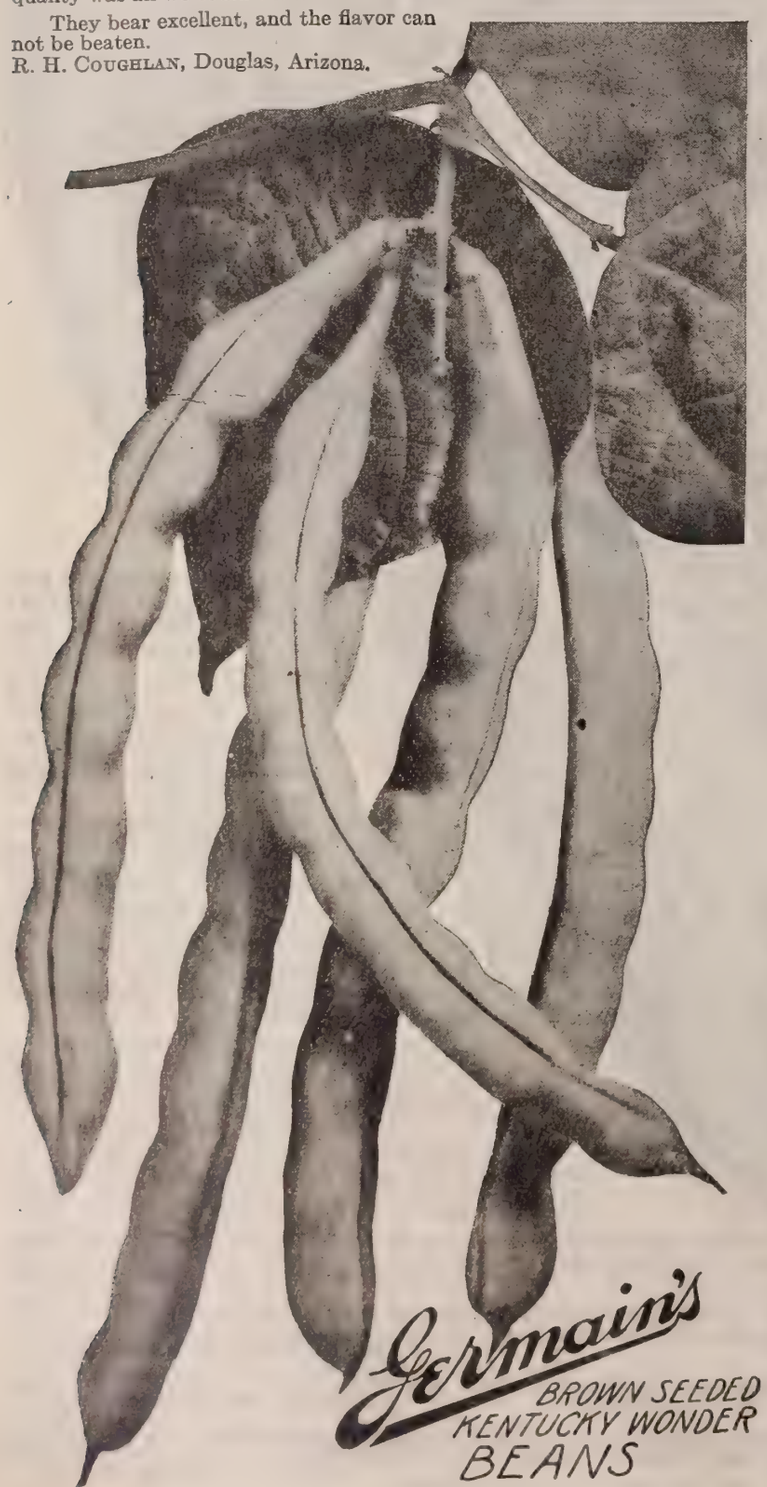
Round in shape, growing to a length of from seven to nine inches, meat crisp and tender, the **Kentucky Wonder Bean** is one that will give you unquestionable satisfaction. We have a strain of seed which brings out strongly all its good features. For culture see page twenty. Prices: Packet, **10c;** one pound, **40c;** 10 lbs., **$3.50.** Postpaid.

I have had unusually good luck with the Kentucky Wonder Beans and can vouch for them, also recommend them very highly to every one. Even this late date they are bearing well. In case I have a garden next summer I'll certainly have Kentucky Wonder Beans in it. Being from Kentucky I have known these beans for a long time, and have always had them.
L. S. Jarboe, Caliente, Calif.

I planted only a small batch, and I am very well satisfied with same. The beans were very nice and tender. H. D. Schilling, San Diego, Cal.

We did not think we had as long a season of beans as before, but the quality was all we could wish. Mrs. Nathan Rannells, La Jolla, Calif.

They bear excellent, and the flavor can not be beaten.
R. H. Coughlan, Douglas, Arizona.



GERMAIN'S LEMON CUCUMBER

The thousands of home gardeners who have tried **Germain's Lemo Cucumber** have been so thoroughly pleased with it, that its reputatio as a wonderful salad, far superior to the ordinary Cucumber, is spread ing far and wide. The rare delicacy of flavor, its piquancy of taste, it good yielding properties are points that make it so much talked abou

In shape it resembles a lemon although not quite so pointed at th ends, and when ready for picking the color is lemon yellow. The photo graph shows the actual picking size, although it will be found satis factory also when somewhat larger. Prices: Packet, **10c;** ounce, **25c** ¼-pound, **85c;** one pound, **$2.50.**

Have always had good success with them, and feel that they are the be cucumber for family use. My garden would not be complete without some Lem Cucumbers. My friends around here who have tried them think they are grea
F. J. Whitlock, Hollister, Calif.

Nothing in our family garden gave so much satisfaction as the Lemon Cucu bers. Two hills of them supplied more than our needs, as they are very prolif and far superior to other varieties. The children had their mother peel one, a ate it down with as much relish as a good apple.
Dr. W. H. Thompson, Riverside, Calif.

I was able to get only one Lemon Cucumber to come up, owing to the ve cold Spring here. But the one vine has been furnishing all the cucumbers need for a family of from seven to fourteen. Without exception they are the best Lem Cucumbers I have ever eaten. F. M. Houk, Orcutt, Cal.

Am pleased with my orders from you, and think the Lemon Cucumbers ve fine indeed. In fact, would not raise any other kind.
Mrs. E. C. Critchlow, Orcutt, Calif.

The Lemon Cucumber Seed we purchased of you last Spring was indeed a go success. All our neighbors enjoyed them so much, and they truly measured up the praise you gave them in your catalog. Mrs. W. L. Hunting, Santa Ana, Cal

Germain's Los Angeles Market Lettuce forms a large, tight head of very sweet and tender leaves. It is unsurpassed in flavor, in quality, or in yield by any of the heading varieties. Try it. For culture see page twenty-nine. Prices: Packet, **10c;** ounce, **75c;** ¼-pound, **$1.50;** one pound, **$5.00.**

Found Los Angeles Market Lettuce Seed excellent. The finest lettuce we ever had. All the seed from your house has proven satisfactory as far as tried.
J. P. Parker, Fairmead, Calif.

As the local gardeners told me that the California lettuce would not head I did not thin or transplant much of the seed (Los Angeles Market) that I sowed. I was agreeably surprised to find that the transplantings headed up in fine style and were much larger than the local varieties —the flavor was excellent. I intend to show some of these "experts" some real lettuce this next spring.
Edw. Derksen, Oshkosh, Wis.

I sent most of the L. A. Market Lettuce Seed to my friends in the East as I had such good success with my garden here I wanted the Eastern people to try it and I wish you could have seen some of the heads I saw this last August—at my home town. Why I think I have got myself in trouble as I had to promise all I gave the seeds to to send them another lot this winter. The people East had never seen such lettuce before, simply crazy over it.
C. V. Dudley, Morenci, Arizona.

t certainly was a success. It was everything you claimed it to be.
A. T. Eckles, Exeter, Calif.

NOTE.—We told you the following story last season, and it still holds good, as is well shown by reading some of the letters we have received.

WOULDN'T IT MAKE YOU SORE!

If you awoke on a hot summer morning and wanted something to start your breakfast and the whole day right, and you remembered that back in January when **Germain's Garden Cyclopedia** first attracted your attention and you had turned to this page and had seen the attractive photographs and had decided that "By Heck, when I order my seeds this year from **Germain's** I'm going to try some of that **Persian Melon** and see whether or not those chaps were telling the truth when they said that this Melon was the finest one ever produced, that its flavor was such that it made breakfast a banquet, that for sweetness of its meat, for tenderness, for that elusive something that hits the right spot, the **Persian Muskmelon** was far and above anything yet developed." And you had forgotten to order the seed and this selfsame morning you felt just like eating a good melon, and you got one from the ice chest which you had bought from the huckster the day before and you dug your spoon into it and tried the first mouthful and it was flat and tasteless and your breakfast was spoiled. And you got up from the table and left the house and Bill Smith walked to the car with you and told you what a wonderful breakfast he had had all because he had picked a **Persian Muskmelon** from his garden the night before and had put it on the ice and had eaten it for breakfast and "Oh Boy! How good it tasted." **Wouldn't it make you sore!?**

GERMAIN'S PERSIAN MUSKMELON is a new type in salmon-fleshed melons and has a wonderful flavor. Primarily a home garden melon. It grows to a large size, but is always of good quality. Prices: Packet, **20c;** ounce, **60c;** ¼-pound, **$2.00;** pound, **$6.00.**

The Persian Muskmelon is a grand melon in every way. It is easy to germinate and easy to grow. I have good melons on my vines at this date. It is sweet and fine flavor and can not be praised too highly.
R. O. Smith, Elk Grove, Calif.

Will say never had better flavored melons in my life. They sure were good.
M. E. Andrews, Bangor, Calif.

I found that they yielded a very nice crop and the flavor was excellent though the soil used was rather poor.
Lionel Gwyther, Santa Barbara, Calif.

I planted fourteen "hills" of this variety with the result that almost all the seed came up. But before any melons "set" on the vines the aphis killed all but one vine which I saved by putting sulphur on it every few days. I have taken no less than a dozen big fine melons from it so far. It is far superior to any muskmelon I have seen.
W. A. Condiff, Fertilla, Calif.

The Persian Muskmelon certainly is a fine melon and a good yielder and will recommend it to all my friends.
Mrs. John B. Wilkinson, Jr., Lakeside, Calif.

These are the first Persian Melons I have raised, and I am probably not as well qualified to judge Persian Melons as I might be. The melons were of large size of uniform shape and excellent quality. The vines grew very rank, but not a heavy yield of melons, but enough to be entirely satisfactory.
R. R. Butler, Hanford, Calif.

Germain's Prizetaker Pea

Did you ever buy or grow any peas whose pods were five to six inches long, containing peas of large size, fine color and superb flavor? This is only one of "Rube Goldberg's Foolish Questions," because we know you haven't, and for that reason we are introducing this year the finest pea ever grown.

In Germain's Prizetaker Pea we have something that is far superior to anything in the pea line ever introduced in this country. For flavor it is absolutely unsurpassed. For prolific growth, size of yield, general palateable and marketable appearance we are positive you have never seen its equal.

Germain's Prizetaker Pea is the acme of perfection. It was first grown in England, the home of the greatest pea growers and hybridists, and we have brought it to the United States because of its wonderful reputation abroad.

It grows to a height of five feet, the stem being strong and sturdy. The pods are borne chiefly in pairs, long and straight and of handsome appearance.

We absolutely maintain Germain's Prizetaker to be a great advance upon any pea grown at present and to be unequalled and matchless for either home or market garden purposes. Price, packet 15 cents; ¼ lb., 35 cents, 1 pound 75 cents, 10 pounds $1.00, postpaid.

Have you read about Germain's two great 1921 Contests?

See Pages Five and Forty-six

$800.00 IN CASH PRIZES

Germain's Sweet Spanish Onion

Did you ever hear people say "I like onions, but I can't eat them. I can usually taste them for a week." I know that's true of myself, and quite a few people I know, and until Germain's Sweet Spanish Onion was called to my attention, I would fight shy of eating onions in spite of my liking for them.

In this new onion you find all the good features of a perfect onion with none of the disadvantages of the common onion; no bite, no objectionable strength. Mild, sweet flavor, good firm meat, fine, tender texture characterize Germain's Sweet Spanish Onion.

The seed was introduced here several years ago, from Valencia, Spain, where large crops are grown. It was first grown in California in the Riverside section, and after hard work and painstaking effort an onion has been produced which is far superior in every way to the original importation.

The onions are large; far larger than the common ones. It has been demonstrated this year that an acre of fair soil will produce up to twenty tons. Both from the home gardener's and market gardener's standpoint the possibilities are great. The Sweet Spanish Onion will rapidly replace a good many of the other varieties.

Plant in December to February, and they will mature about August or September. Allow them to mature thoroughly, until the tops have dried. After pulling the onions, allow them to remain in the field covered with the tops for about a week, then put in crates in an airy place to allow thorough curing.

We can state without fear of contradiction that Germain's Sweet Spanish Onion is far superior to any onion on the market. Your experiences in the past with our introductions unquestionably have convinced you of the merit and honesty of our claims. As witness to this we respectfully refer to the pages on Zucchini, Persian Muskmelon and some of the other new vegetables we have introduced during recent years.

Sweet—No Strength—No Bite—Large Size—Palatable—Marketable—that's Germain's Sweet Spanish Onion.

Price per packet, **15** cents; ounce, **75** cents; one-quarter pound, **$2.50**; one pound, **$7.50**

GERMAIN'S CHINESE GIANT PEPPER

One couldn't ask for more in a vegetable than is found in **Germain's Chinese Giant Pepper.** In size it is the largest Pepper grown, the photograph being actual size, although they grow still larger. The plants are strong and vigorous, dwarf in habit, seldom growing over two feet high. The fruit is thick and mild.

Prices: Packet, **10c;** ounce, **80c;** ¼-lb., **$2.65;** one pound, **$8.00.**

I am pleased to state that the Chinese Giant Peppers have grown to a fine size, are rank and thrifty and are bearing a fair crop of large handsome fruit. The flesh of the peppers is tender and sweet, and I enjoy it very much.
WM. A. EARLS, San Dimas, Calif.

I have obtained very satisfactory results with Chinese Giant Peppers. They are the largest I have ever seen, having grown as long as six inches. I have always had good results from Germain's seeds.
W. S. WILLIAMS, Hemet, Calif.

I planted the Chinese Giant Pepper Seed and neighbors in front of me, left of me and right of me had all they wanted and then some. People passing my place were given of them and so far they are the best ever. My neighbors planted seed from my stock and there are quite a lot of them in San Bernardino.
L. B. YERXA, Seeley Flats, Calif.

Germain's Epicure Radish

You know the old saying, "What's in a name" Truly there's something in a name when you consider **Germain's Epicure Radish.** Nothing more epicurean has ever been offered than this select strain of scarlet, white-tipped Radish, which is one reason for its popularity among market gardeners. It is the quickest growing Radish we know of, maturing in eighteen days. Firm, very mild in flavor and never pithy, it is truly a joy to the planter in every sense.

Prices: Packet, **10c;** ounce, **20c;** ¼-pound, **70c;** pound, **$2.00.**

We have found the "Epicure Radish Seed" to be all you claim it to be and more. You could not give too much praise if you tried.
G. A. BEAMER, Yermo, Calif.

The Epicure Radish Seed purchased from you was all you claimed for it.
BEN H. NICHOLAS, Water, Calif.

I found the Epicure Radish, also the White Tipped Scarlet Turnip Radish to be excellent.
MRS. A. F. ARNOLD, Bakersfield, Calif.

Germain's ZUCCHINI

Zucchini belongs to the squash family, the other name for it being Italian Squash. For piquancy of flavor, tenderness, and general palatability I have never tasted its equal. It is truly a gastronomic wonder. We have prevailed upon Marcell's wonderful chef to give us his recipes for preparing Zucchini which we are reproducing on this page. It is easy to grow, just like any squash, and yields heavily. Try a packet of it at least and see whether or not we are right in the claims we make for it. Pkt. 10c, oz. 20c, ¼ lb 65c, 1 lb $2.00, postpaid.

My experience with the Zucchini or Italian Squash is satisfactory in every way. We and our neighbors think you have not praised it too highly. In any way that we have cooked it it is good—better than any squash we've ever used. Other seed entirely satisfactory.
CARRIE BARNES, San Luis Obispo, Calif.

It is by far the best squash we have ever eaten, and we had enough from six vines to supply the neighborhood. LEA R. FULCHER, Durham, Calif.

I can say for one the Italian Squash is all you claim, and more, too. It is a wonderful grower and good producer.
J. W. WAGONER, East Nicolaus, Calif.

We have found it very satisfactory in every way. The vines have been bearing since early last summer and are still in blossom. It has been a very pleasant addition to our table. MRS. CARL S. MILES, Yuba City, Calif.

The Zucchini is all you claim it to be. It is prolific and will grow anywhere the common summer squash will grow. I live in the Mountains in North Central Washington, and all of your seeds which I have tried here have done well. O. P. MAXWELL, Stehekin, Washington.

I have been buying seeds and plants from you for a good many years, and have always been more than pleased with results. Last year my Kentucky Wonder Beans were unusually fine, and the Zucchini, new to us all, was very popular. Neighbors who never ate squash came back for more, and I have no doubt you will get some new customers from here for that alone.
MRS. F. A. ERSKINE, Calexico, Calif.

This is by far the best squash we have ever tried, free from all bugs and blight, and rank growth with little water. If a good keeper, it should capture the market in time. DIX VAN DYKE, Daggett, Calif.

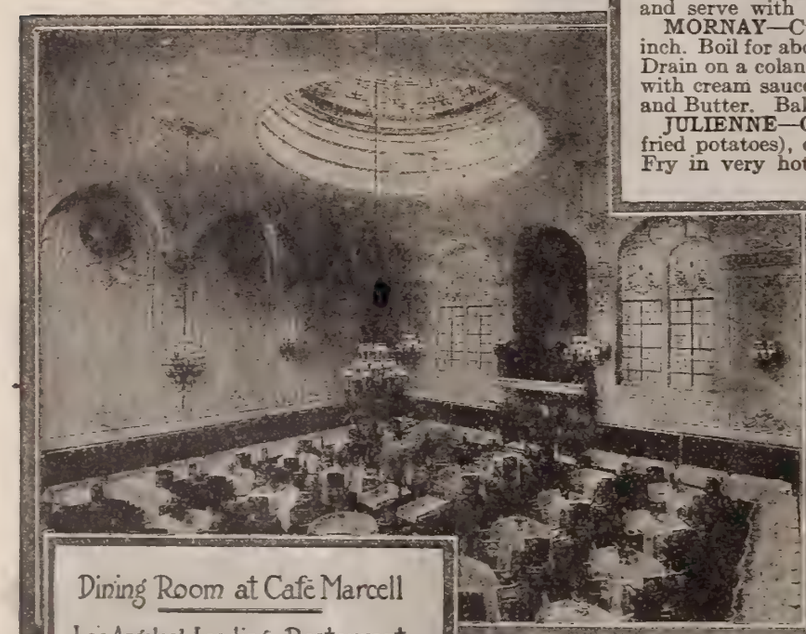
The Zucchini Squash I grew from seed purchased from you, were very superior to other vegetables for table use. They can be prepared for the table in so many ways, one does not tire of them. The season is long, too, if they are regularly picked. A. V. KELSEY, Van Nuys, Calif.

I had great success with the Zucchini seed you sent me, and cannot praise it enough. Have given the Zucchinis to the neighbors, and they all say it is one of the best vegetables they have ever eaten. All the other seeds you sent me have been perfectly satisfactory, and I want to say a word in praise of your prompt service. MRS. FRED EVANS, Livingston, Calif.

FLORENTINE—Raw, cut in dice, about ¼ inch. Season with salt and pepper. Dip in flower, and then raw egg. Fry in skillet with olive oil and serve with drawn butter.

MORNAY—Cut in small squares about one inch. Boil for about one minute in salted water. Drain on a colander. Put in baking dish. Cover with cream sauce and a little Parmesan Cheese and Butter. Bake in oven until done.

JULIENNE—Cut in Julienne (like French fried potatoes), dip in milk, and then in flour. Fry in very hot grease. Season and serve.



Dining Room at Café Marcell

Los Angeles' Leading Restaurant Where Zucchini had its Birth

This photograph shows the actual picking size of Zucchini

Germain's Winter Queen Tomato

It is our business to find the best of everything for our customers. It is a policy that has made us a host of friends and built up a big seed and plant house.

One of our hobbies for years has been the tomato, and we have left no stone unturned in the development of this strain of **Winter Queen** to the high state of perfection which it now occupies.

Its compact bush is in striking contrast to the sprawling habit of other varieties — an appealing feature to the market gardener.

It is a generous producer of even sized, finely colored fruit of remarkably firm flesh, which makes it a prime favorite with the shipper.

Another strong quality of **Germain's Winter Queen** is its hardiness, as it hrs been known to come through a frossy period in full vigor, where other varieties were entirely killed.

Prices: Packet, **10c**; ounce, **50c**; ¼-lb, **$1.65**; pound, **$5.00**

I had very good success with the Winter Queen Tomatoes, and will plant them again next season. They are of excellent quality and fine flavor.

J. C. Hancock, Paradise, Ariz.

Germain's New Stone Tomato

Germain's New Stone Tomato is a beautiful bright red, of large, uniform size and with very few seeds. All farmers demand it because of its extremely firm meat and because of its assured tonnage. It is a thoroughly dependable, proven tomato, as it may be planted from the earliest spring month when danger of frost is passed, and will bear right up to the first frost in the fall.

The desirability of this tomato is greatly enhanced by its extreme smoothness and its hardiness. The one great requisite in a vegetable for private use is quality — first and always. The prime essentials are good flavor, the minimum of acidity, a tender skin, solid meat and flesh, few seeds and very little juicy pulp. Germain's New Stone Tomato meets all these requirements. It ripens evenly and in point of cost and labor in harvesting the chances of loss are minimized. Prices: Packet **10c**, ounce **40c**, ¼ lb. **$1.35**, pound **$4.00.**

The Stone Tomatoes have done fine and are still doing fine. We have only a home garden but the New Stone Tomatoes have furnished us all we can use and fine large ones.

J. C. York, Hot Springs, Calif.

I had good success with the New Stone Tomato Seed, and have raised quantities of fine tomatoes even during the extreme warm weather. I am still getting fine tomatoes. We were bothered considerably with blight, but of course that has nothing to do with the seed.

C. A. Scott, Delano, Calif.

VEGETABLE SEEDS

ALL PRICES ON THIS PAGE ARE POSTPAID

PALMETTO ASPARAGUS

ARTICHOKE

Alcachofa Artischoke Artichaut

CULTURE—Sow any time except during hottest weather, when all seed beds require special care. Soil should be a free, moist loam and seeds should be planted an inch deep. Plant out when six inches high in rows four feet apart each way. Save offsets from best plants for new supply, as artichokes never come true from seed, some will prove inferior. When planting seedlings, reject those with spiniest leaves.

	Pkt	Oz.	¼lb	1 lb.
Germain **LARGE GREEN GLOBE.** The favorite garden variety	10	1 20	4 00	12 00

Plants of large Green Globe Artichoke, see page 128.

ASPARAGUS

Esparrago Spargel Asperge

CULTURE—Soak seeds twenty-four hours before planting. Sow in February in beds broadcasted or in rows, covering about one inch. The following January transplant to rows three or four feet apart and a foot apart in the row, with at least six inches of soil over the roots. Light sandy soils are preferable.

NOTE: By planting two year old roots, much time and labor will be saved. See prices of roots, page 128.

	Pkt	Oz.	¼lb	1 lb.
ARGENTEUIL. The favorite in the Paris markets, and exceedingly popular wherever grown in the United States. The stalks grow to an enormous size, cook tender, of delicious flavor	$ 10	$ 20	$ 50	$1 50
Germain **PALMETTO.** Standard among the asparagus shippers of California is the Palmetto, and Germain's have gone to a really unwarranted expense to get seed from the most perfect first growth stock. This strain grows to mammoth proportions, and very even in size, which makes it especially popular with shippers. The shoots are a light green, slightly tinted with pink, and are tender to an unusual length. No one will be disappointed with the productiveness and fine edible qualities of the Palmetto Asparagus	10	20	45	1 25

BEANS

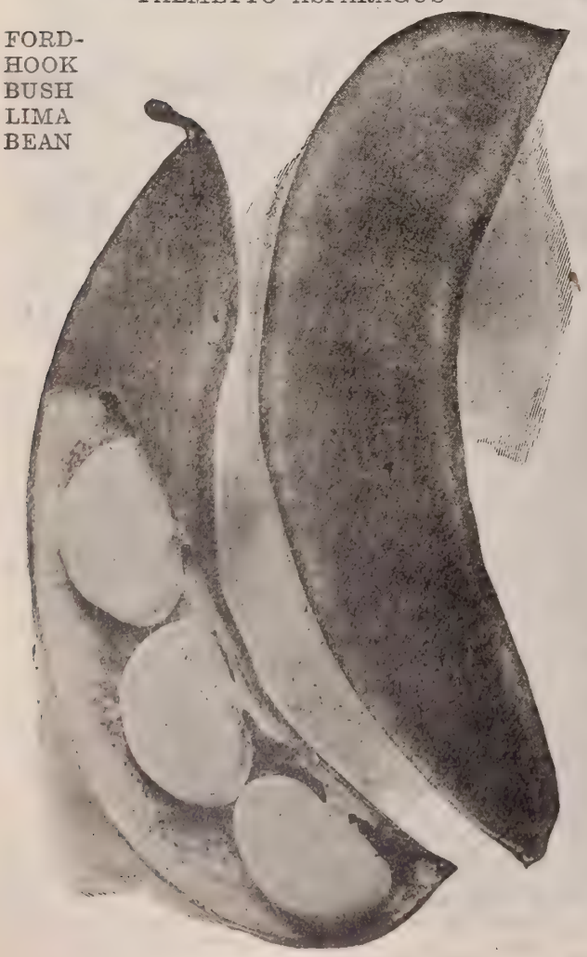
Note—Prices up to and including ten pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post necessary postage should be added. See our Parcel Post Schedule on page 1. If quantities are desired, do not fail to write for special prices.

LIMA BEANS

Frijole Bohne Haricot Nain

CULTURE—Beans for the home garden should be a continuous summer crop, and sowings may be made from the middle of March to September. Plant two inches deep and two feet apart. Have drills one and one-half to two and one-half feet apart, according to variety; directions will be found on individual packets for the respective sorts. The average amount needed to plant an acre is fifty pounds. One pound will sow one hundred feet of drill. They will thrive in any good soil.

FORDHOOK BUSH LIMA BEAN



BUSH VARIETIES

Germain RECOMMENDS

FORDHOOK BUSH LIMA BEANS

The old fashioned name of "butter bean" given to lima beans can best be appreciated when eating this delicious variety fresh from your own garden. There are from three to five beans in each pod, which grows in clusters of from two to five on long spikes, making the picking easy where the beans are eaten green. The bush is a vigorous grower reaching the height of two feet, erect and strong. Germain's have long recognized the Fordhook as a splendid variety and this year succeeded in getting a stock of seed which must be placed among the specialties, insuring the buyer of getting absolutely the best. Price, packet 10 cents; one pound, 40 cents; ten pounds, $3.50. Write for prices on 100 lb. lots.

	Pkt	1 lb	10lb	100lb
BURPEE'S BUSH LIMA. Splendid dwarf Lima; large and of excellent quality	10	40	3 50	Write for Prices
Germain **BURPEE'S IMPROVED BUSH LIMA.** The earliest maturing of all the large seeded Limas. Pods very large, thick, and contain usually four beans, which are unusually thick, of large size and excellent quality	10	40	3 50	
FORDHOOK BUSH LIMA. See specialty above.				
HENDERSON'S BUSH LIMA. A dwarf variety of the Sieva or Southern Lima; produces enormous crops	10	40	3 50	
MONSTROUS BUSH LIMA. What its name implies. Extra large in size. It should be planted 6 feet by 6 feet in order to give it a chance to develop properly. Good for market or home garden.	15	60	5 50	

POLE VARIETIES

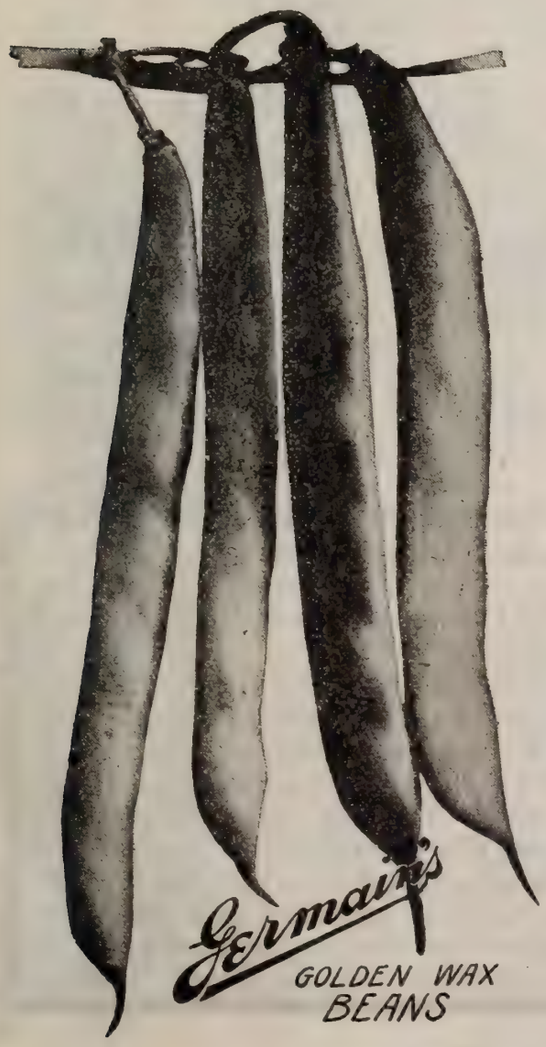
	Pkt	1 lb	10lb	100lb
GIANT PODDED POLE LIMA. The largest podded of all Pole Limas, the pods being gigantic in size measuring very often from seven to nine inches in length and from one and one-half to two inches in width. A vigorous grower and invariably of finest flavor. See also page 6	15	55	5 00	
Germain **KING OF THE GARDEN LIMA.** A vigorous grower, bearing profusely; large pods, five to eight inches. Beans large and of rich flavor	10	40	3 50	

CATALOGUE PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Read About Germain's New [18] Lima Bean on Page Six

BEANS

BURPEE'S STRINGLESS GREEN POD



See Field Seed Section pages 43-61 for other varieties, such as Bayou, Black Eye, Castor, Mexican Pink, Small Navy, Lady Washington, Soja.

ALL PRICES ON THIS PAGE ARE POSTPAID

Note—Prices up to and including ten pound quantities include postage or expressage prepaid. When sent otherwise deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Scheduleon Page 1.

CULTURE—Beans respond very readily to good soil and cultivation. A light rich, well-drained loam is the most desirable. The use of manure is advisable but should be used sparingly as it might make the plant run too much to vine. There is no plant more sensitive to cold and wet than the bean. We therefore advise not to plant until the ground has become dry and warm. The largest returns will result in planting in drills from 2 to 3 feet apart. Cover the seed one and one-half inches deep and thin the young plants 3 to 6 inches apart in the row. If planted in hills, about 2 feet apart each way.

KEEP THEM COMING

For rotation, plant at intervals of from one to two weeks. The plants until time of blossoming should have frequent shallow cultivation, but any mutilation of the roots by cultivation after the plants come into blossom is likely to cause the blossoms to blast and so cut off the crop. Cultivation should always be very shallow and it is useless to expect a crop from a field so poorly prepared as to need deep stirring after planting.

BROAD BEANS

	Pkt	1 lb	10 lb	100 lb
Germain **ENGLISH, OR BROAD WINDSOR.** The celebrated broad bean of England, growing on a strong stalk two feet high; beans eaten shelled	10	$ 30	2 50	

DWARF OR BUSH

GREEN POD

BURPEE'S STRINGLESS GREEN POD

Germain The Stringless Green Pod is recognized as being one of the best beans offered for market garden or general use. In point of earliness, it ranks among the first, and is excelled by none in bearing ability and in good quality. It is one of the greatest green pod beans to date. The pod is very brittle, long and round and is entirely without strings. It is about five inches in length, green in color, very tender, and of the highest and best flavor, remaining for a long time in edible condition, and bearing continuously for weeks.

Price, packet, 10 cents; one pound 40 cents. Ten pounds, $3.50.

	Pkt	1 lb	10 lb	100 lb
Germain **CANADIAN WONDER.** This is a strong growing bush variety, bearing large numbers of flat, handsome pods, long and very tender, and with excellent flavor. They are widely known as the best for winter use, and are valuable both to the market gardener and for the home garden	10	40	3 50	WRITE FOR PRICES
DWARF HORTICULTURAL OR CRANBERRY. A fine shell variety. Pods medium length, broad and thick, curved with splashes of bright red on a yellowish ground	10	40	3 50	
EARLY MOHAWK. Hardier than other sorts. May be planted earlier and will often furnish beans before any other kind	10	40	3 50	
EXTRA EARLY REFUGEE. Very early, prolific; fine quality; a great favorite for canning	10	40	3 50	
FRENCH MOHAWK. A favorite variety, productive. Fine flavor.	10	40	3 50	
LONG YELLOW SIX WEEKS. A favorite variety; very quick growing, with green, flat pods, which are thick and meaty. The seed when fully ripe is yellow, hence the name. It is a well known market variety, tender and of good flavor; A good market variety, as it is a very heavy cropper	10	40	3 50	

WAX OR YELLOW-PODDED

IMPROVED GOLDEN WAX

Germain This bean is a distinct improvement on the old Golden Wax. It is a stronger grower, more prolific and not subject to disease like the Golden Wax. The pods are flat and straight and are grown in great profusion, and we recommend it to the public as a superior bush wax bean—one of the most popular varieties for either market or general garden use.

Price, packet, 10 cents; one pound, 40 cents. Ten pounds, $3.50.

	Pkt	1 lb	10 lb	100 lb
IMPROVED PROLIFIC BLACK WAX. In every respect first-class; pods round, a beautiful bright yellow color, very early and continues long in bearing; handsome and immensely productive	10	40	3 50	Write for prices
REFUGEE WAX. A handsome, round-podded variety, extremely productive, bearing large, fleshy, wax-like pods of splendid quality	10	40	3 50	
Germain **VENTURA WONDER WAX.** This bean is of California origin, and a very valuable addition to the wax varieties. It is a stocky variety of bush, bearing large numbers of long flat, yellow podded beans, containing white seed, that have a fine flavor. Either used as a snapped bean or dried for winter use. We recommend this bean either for market or general gardening	10	40	3 50	

BEANS

POLE, OR RUNNING BEANS

Frijole de Bejuco **Stangenbohne** **Haricot a Rames**

CULTURE—Sow in a rich soil, in well manured hills, three feet apart each way covering to a depth of two inches. In each hill set a pole eight or ten feet long, around which plant five or six beans, afterward thin out leaving four strong plants to each hill.

GERMAIN'S IMPROVED
BROWN KENTUCKY WONDER

A very popular and satisfactory type of the Kentucky Wonder Beans. It was introduced a few years ago and since then it has been growing in popularity by leaps and bounds until now it is a most desired variety.

Germain's Improved Brown Kentucky Wonder Bean is a pole bean of a tenderness that places it in the front rank of the bean family. Its productiveness is so exceptional that any one planting a bean garden should not be without it, and as for the market gardener, it will be impossible for him to find a bean that will yield greater returns per acre. It is earlier by two weeks than the other types of Kentucky Wonders and the Market Gardener, who is wide awake, realizes that the big returns are made by harvesting a heavy crop early.

Its tenderness, crispness and color make it very desirable. The pods average from eight to ten inches in length and are of a deep green shade. See page ten.

Prices: 10c per pkt.; 40c per lb.; $3.50 for 10 pounds.

	Pkt	1 lb.	10lb
ASPARAGUS, OR YARD LONG. Interesting and popular among those who raise it, this bean is still a novelty to many gardeners. No more tender or finer flavored bean ever went into the pot. Every housewife will appreciate the entire absence of strings in the Asparagus Bean, and it should be grown in every home garden	10	40	3 50
DUTCH CASE KNIFE. A very good pole bean; early; pods broad and long; used as snap and shell	10	40	3 50
Germain **KENTUCKY WONDER WHITE SEEDED.** This bean is very early and enormously productive, the long green pods hanging in clusters on the poles. They are entirely stringless and very tender. It has long been known as a favorite, as it meets with a ready sale on the early market and is considered a delicacy in the home garden	10	40	3 50
KENTUCKY WONDER WAX. Similar to above, yellow pods	10	40	3 50
LAZY WIFE. Pods six to eight inches long, entirely stringless, of a rich, buttery flavor as a snap bean; also a good white shell bean for winter. Of the finest flavor	10	40	3 50
LONDON HORTICULTURAL, OR SPECKLED CRANBERRY. Vines vigorous, with large light-colored leaves; pods short, broad, pale green, becoming streaked with red as they mature; good either green or dry	10	40	3 50
SCARLET RUNNER. Ornamental and useful. The vine is graceful; flowers of a brilliant scarlet, and the beans are of excellent quality, shelled or in a dry state	10	40	3 50
WHITE CREASEBACK. An extremely early pole bean, very prolific and an excelent shipper	10	40	3 50

WRITE FOR PRICES

CONTROLLING BEAN PESTS

Beans in California are troubled at various times with insect pests like Aphis, Red Spider, Weevil, and Fungous troubles such as mildew and rust.

Aphis can be controlled by a nicotine spray or with tobacco dust; Red Spider and Mildew by dusting with sulphur, and Rust by spraying or dusting with Bordeaux Mixture. See page 8.

The most serious pest is the Bean Weevil, which only becomes apparent after harvesting. The only remedy is to fumigate the beans with Carbon Bisulphide at the rate of two ounces to 100 pounds. A simple method is to put the seed in a tightlyclosed room or in a small container and place the Carbon Bisulphide in saucers at the top, allowing it to evaporate. Be sure room or container is closed tightly.

CROSBY'S EGYPTIAN BEET

BEETS

Note.—Prices listed are postpaid.

TABLE BEETS

Remolacha **Rothe Ruebe** **Betterave**

CULTURE—This is one of few vegetables that can be grown the year round. A beet patch completes the garden. Seed planted at intervals of three weeks will keep beets coming in rotation. The seed should be sown in drills 15 inches apart and 1½ inches deep, and covered by hand unless following field culture. (The uses of a rake for this purpose disturbs the seed and often draws the seed out of the ground. The result will be an irregular row.) Thin out then to 9 inches apart in the row. These young beets are excellent used as spinach. Frequent cultivation is essential to produce a successful crop.

Germain RECOMMENDS

CROSBY'S EGYPTIAN BEET

Among all the table beets there is probably no other which has been so often featured by seed houses, where a first class stock of seeds can be obtained. A good purchase by one of our buyers causes us to put the Germain mark of approval on this variety this year by placing it among our specialties. Many experienced growers say "Crosby's Egyptian is the only beet worth planting," and while this may be somewhat of an exaggerated opinion, we will unhesitatingly recommend this lot of seed as being the best that money can buy. Crosby's Egyptian is a medium sized beet, very early and of small top. It grows smooth and the deep crimson flesh is sweet and tender. Price, Pkt. 10 cents; ounce 20 cents; ¼ pound 45 cents; pound $1.25.

	Pkt	Oz.	¼ lb	1 lb
CROSBY'S EGYPTIAN. See specialty above.				
DETROIT DARK RED. One of the best beets for either market or home garden. Very rich in color, being a dark red. We recommend this as specially desirable to plant for market gardeners on account of its attractive appearance. The root is medium sized, globular or nearly round, very smooth and of dark red color	10	20	50	1 50
Germain **EXTRA EARLY ECLIPSE.** Eclipse is a well known variety of table beets. Nearly as early as the Egyptian. It is nearly round in shape and has a small top, while the flesh is fine grained and tender with bright red color	10	20	45	1 25
EXTRA EARLY EGYPTIAN. Very early, of dark blood color, rather flat shape	10	20	45	1 25
Germain **LONG BLOOD.** A splendid variety of fine flavor and of long, symmetrical shape	10	20	45	1 25
SWISS CHARD, OR SILVER. Cultivated for its leafstalks, which are served like asparagus, and for its leaves, cooked like spinach. Cut often, as new stalks will be produced	10	20	60	1 75

STOCK AND SUGAR BEETS

See Field Seed Section, page 56

BROCCOLI

Note—Prices listed are postpaid.

Broculi **Spargelkohl** **Brocoli**

CULTURE—Broccoli like the cauliflower is a cultivated variety of the wild cabbage which is grown for the sake of the head, which is similar to cauliflower. Heads are smaller than cauliflower. To secure broccoli at its best we advise growing your own and picking one hour before cooking. Culture the same as cauliflower.

	Pkt	Oz.	¼ lb	1 lb
Germain **WHITE CAPE.** Heads of medium size, compact, of creamy-white color	10	60	2 00	$6 00

BRUSSELS SPROUTS

Note—Prices listed are postpaid.

Berza de Bruselas **Rosenkohl** **Chou de Bruxelles**

CULTURE—Sow in September and October and treat same as Cabbage.

	Pkt	Oz.	¼ lb	1 lb
Germain **HALF DWARF PARIS MARKET.** A half-dwarf sort, bearing handsome crops of round, hard sprouts of the finest quality	10	40	1 35	4 00

CATALOGUE PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Due to the scarcity of all seeds caused by newly created demands elsewhere, we sell out of many varieties and it is necessary to buy on open market at greatly increased prices, so we find it necessary to quote prices in this catalogue subject to change without notice.

CABBAGE

Note—Prices listed are postpaid. Cabbage Plants are listod on page 128.

Col Repollo Kopfkohl Chou Pomme

CULTURE—Knowing the first essential of successful cabbage growing to be good seed, we have always obtained our seed from expert seed growers, and therefore we enjoy an enormous volume of business on this variety of vegetable.

To raise cabbage successfully is not difficult, as it is comparatively easily grown. We advise the planting of seed in beds or land of light, rich texture at a depth not to exceed ½-inch; and the soil should be pressed firmly over the seed. The plants should not be allowed to crowd one another before they are transplanted, but as soon as large enough to be handled should be lifted out to their permanent place.

For early varieties, such as Winnigstadt, plant in rows 3 feet apart, plants 1 foot apart in the row. The larger headed varieties, 1½ feet apart in the row.

For the permanent field, soil of a firm, stiff, rich nature is preferred.

Immediately after transplanting, the plants should be watered and constant, deep cultivation is very essential. A cool, moist climate seems to be the most suitable of all for the culture of cabbage which generally grows to greater perfection in the coast region, as heat and drought are injurious to them.

Sudden changes of temperature have a tendency to make cabbage go to seed and growers should watch them carefully to see that their field is moist but properly drained. Sudden check in growth is prevented by this care.

It is only logical that a climate that is good for man would be good for insects also. California has a greater variety of insects which live longer and reproduce more generally than any other State in the Union.

On that account we have found it advisable to maintain an insecticide department which devotes itself to garden troubles of all kinds. Write to this department at any time and tell us your troubles. Our experts will gladly advise you to the best of their ability.

The cabbage, for instance, is a vegetable that while not bothered with a great number of insects, nevertheless has two enemies which do considerable damage if not routed.

These are the cabbage worm and the cabbage aphis. The former is velvety green in color and when full grown is about an inch and a quarter in length. They are easy to detect and the parent of this worm is present from morning to night in the shape of the common white butterfly, which seems so harmless when flying around in the garden. The best remedy is dusting or spraying with Corona Dry.

The cabbage aphis, or as otherwise known the "cabbage louse," is a small insect of a greenish black color and similar in appearance to the green aphis found on rose bushes. Nicotine sprays such as Black Leaf 40, or Tobacco Dust, applied thoroughly, will effectively combat the ravages of this pest See page three.

COPENHAGEN MARKET CABBAGE

POINTED, OR OBLONG VARIETIES

	Pkt	Oz.	¼lb	1 lb
SCOTT'S CROSS. A cross between Early Winningstadt and Flat Dutch. Said to produce more to an acre than Winningstadt.	10	1 00	3 35	10 00
EARLY WINNIGSTADT. See specialty on page seven.				
EARLY YORK. An old favorite, with solid, pointed heads. Standard English sort	10	50	1 35	5 00
SELECTED EARLY JERSEY WAKEFIELD. A favorite sort. Heads very compact, solid and conical shape, few waste leaves	10	35	1 20	3 50

FLAT, OR ROUND HEAD VARIETIES

	Pkt	Oz.	¼lb	1 lb
ALLHEAD EARLY. Very early cabbage of the large early sort, and cannot be recommended too highly; remarkably uniform.	10	40	1 35	4 00
CANNON BALL. See page seven.				
COPENHAGEN MARKET CABBAGE. One of the most popular round-headed cabbages with the market gardeners. It is one of the earliest of its kind ever introduced. Leaves medium light green, nearly round, thick and smooth. The heads are round extremely solid and of exceptionally good quality. We recommend it unreservedly both for the home garden and market garden	10	60	2 00	6 00
DANISH BALLHEAD OR HOLLAND. The hardiest round-headed variety in cultivation. The best for winter keeping	10	60	2 00	6 00
DRUMHEAD SAVOY. Fine quality	10	50	1 35	5 00
EARLY SUMMER. An early maturing cabbage, with large, solid heads somewhat flat, short outer leaves allowing for close planting. A good keeper	10	50	1 35	5 00
HENDERSON'S SUCCESSION. An excellent second-early variety coming in immediately after the first early sorts; free from coarse veining; enormous heads, exceedingly tender	10	50	1 65	5 00
GLORY OF ENKHUIZEN CABBAGE. A splendid second early variety. Heads are of good size, almost perfectly round, extremely solid and heavy, deliciously tender and of the finest quality. It is a sure header. We highly recommend this variety.	10	60	2 00	6 00
LARGE LATE DRUMHEAD. Solid head and few loose leaves. Can be planted closely in the field	10	45	1 40	4 25
SELECTED EARLY FLAT DUTCH. Very hardy, handsome, very solid, of fine quality, and as one of the very best keepers, it is particularly desirable for distant markets or for late spring use. Compact growing, with long stems and exceedingly hardy in resisting cold and dry weather	10	45	1 40	4 25
Germain **SELECTED LATE FLAT DUTCH.** A low-growing variety; heads large, bluish green, round, sound, broad and flat on top; an excellent fall and winter variety; good keeper	10	45	1 40	4 25
SUREHEAD. One of the best main crop cabbages	10	45	1 40	4 25

CHINESE CABBAGE

CHINESE CABBAGE (Follow Cultural Directions on Lettuce.)

Occidental races have always been slow to absorb anything from the Chinese, but it is surprising that so few people have learned to appreciate the value of the Chinese Cabbage, a type that has been maintained for hundreds of years by that race. It is largely grown for Chinese consumption, and it only remains for Americans to find out its merits to make it popular. It is tender, crisp, blanches itself perfectly, and is equally good raw or cooked.

	Pkt.	Oz.	¼lb	1 lb
CHINESE WHITE	10	50	1 50	5 00
" **GREEN**	10	50	1 50	5 00

RED CABBAGE

	Pkt	Oz.	¼lb	1 lb
RED DUTCH OR PICKLING. Fine, solid, dark red heads	10	50	1 65	5 00

See Page Seven For [22] Winnigstadt Cabbage

CARROTS

Note—Prices listed are postpaid.

Zanahoria Moehre Carrotte

CULTURE—Sow any time in deep, loose soil, preferably sandy loam about one-half inch deep, in rows eighteen inches apart and thin to three inches apart. Water freely at all times. The carrot is one of the most wholesome and nutritious of our garden roots, deserving to be more extensively used for culinary purposes and we urge our readers to give some of the early table sorts a trial. For feeding stock, especially horses and milch cows, the carrot cannot be surpassed, and it should be more largely grown by farmers for this purpose. One ounce of seed will sow about 150 feet of row. Four pounds to the acre.

DANVERS HALF LONG CARROT

CHANTENAY CARROT

Germain RECOMMENDS

OXHEART, OR GUERANDE, CARROTS

The common tendency of carrots to grow woody or pithy is least noticeable in this improved and popular strain. This variety may be left in the ground longer than any other without developing these depreciating qualities. The Oxheart is a short carrot growing about 4½ inches long and about 3½ inches thick at the shoulder, with a slight taper to the stump rooted bottom. For this reason it is especially desirable for heavy soils, which also grow the best carrots. The flesh is a bright orange, smooth grained and sweet, and it is equally fine for table use or stock feeding. We are pleased to include this variety in our specialties this year, and our selection of this season puts it among the stocks which we can guarantee. Price, packet 10 cents; ounce 20 cents; ¼ pound 45 cents; pound $1.25.

	Pkt	Oz.	¼lb	1 lb
EARLY CHANTENAY. This is the best early carrot Germain grown for market gardeners. Six inches long, stump rooted, smooth, deep red, fine grained and sugary, not apt to crack	10	$ 20	$ 45	$1 25
EARLY FRENCH FORCING. The earliest variety, largely grown for forcing; globular-shaped root of orange-red color.	10	20	50	1 50
EARLY SCARLET, OR SHORT HORN. One of the most popular varieties for table use; color deep orange	10	20	45	1 25
IMPROVED DANVERS HALF LONG. A first-class Germain carrot for all soils; in form midway between Long Orange and Short Horn. Of a rich, dark orange color, very smooth and handsome; 20 to30 tons per acre is not an unusual crop	10	20	45	1 25
IMPROVED LARGE WHITE BELGIAN. Very productive; for stock-feeding exclusively; grows one-third Germain out of ground. Roots white; green above ground	10	20	40	90
IMPROVED YELLOW BELGIAN. Same as White Belgian, excepting in color	10	20	40	1 10
IMPROVED LONG ORANGE. A well-known standard sort; roots long, thickest near the crown, tapering regularly to a point; color deep orange. Suitable for the table and main field crop.	10	20	45	1 25

OXHEART CARROT

CAULIFLOWER

Note—Prices listed are postpaid.

Coliflor Blumenkohl Chou-fleur

CULTURE: Prepare the seed-bed carefully, using only rich and thoroughly pulverized soil. Good results are obtained by keeping the plant in a healthy and rapidly growing condition. Broadcast the seed in the seed-bed prepared, sowing the early varieties from May 15th to July 1st; medium early varieties May 20th to July 5th; and late varieties any time from June 25th to Aug. 25th inclusive. When the plants are 40 days old, they are ready for the field. Transplant to 15 inches apart in rows 30 to 36 inches apart. Do not leave plants in the hot-bed over 45 days as the stems become hard and poor results follow. Keep the plants vigorous and growing.

Due to different localities requiring a different time of planting of Cauliflower, we advise your writing us for specific planting information, which we will be glad to give. Two or three week's difference in planting means success or failure.

CAULIFLOWER PLANTS. See page 128.

Germain RECOMMENDS

EARLY SNOWBALL CAULIFLOWER

After considerable study of the different types of Cauliflower that have been offered both in America and abroad, we have selected a strain which we consider one of the superior types: This strain is known as "Early Snowball".

It is a snow-white Cauliflower and its leaves have a tendency to over-lap at the top of the flowers. In this way, it protects from injury, exposure to frost, rain or heat. It is very essential that good Cauilflower be so protected on account of shipping, and in this, our strain is perfect.

Our market garden trade is immensly pleased with this strain and our business on it has grown to very large proportions.

25 cts. pkt. ¼ oz. 1.50 cts. 1 oz. $4.50 ¼ lb. $15.00 1 lb. $45.00

SEE DESCRIPTION OF GERMAIN'S SNOWFLAKE CAULIFLOWER Page Eight

	Pk	¼oz	1 Oz	¼lb	1 lb
EARLY SNOWBALL. See specialty above.					
EXTRA EARLY ERFURT. Remarkably sure heading, early variety, dwarf habit; similar, not as early as Snowball.	25	1 50	4 50	15 00	45 00
HALF EARLY PARIS. A dwarf of the medium early variety. The heads are solid; pure white. Stock does not head as uniformly as others we offer	15	50	1 50	5 00	15 00
LARGE ALGIERS. A splendid late variety, eminently adapted for Southern California; heads large, white, solid. One of the best for market gardeners. Our stock is extra fancy	15	50	1 50	5 00	15 00
VEITCH'S AUTUMN GIANT. A large, late sort of robust habit; heads compact, large outer leaves. Succeeds well in southern latitudes	20	50	1 35	4 00	12 00

CELERY

Note—Prices listed are postpaid. Celery plants are listed on page 128.

Apio **Sellerie** **Celeri**

CULTURE—Sow from February to May in drills one foot apart. Later, usually in June, transplant to rows four feet apart and six inches apart in row. Rows should be furrowed out so plants may be set six inches deep. Later, soil may be banked against rows for blanching, even so-called self-blanching varieties needing the cool, moist soil to render the stalks crisp and tender, but this should not be done until a few weeks before harvesting. One ounce of seed will produce 5000 plants.

	Pkt	Oz.	¼lb	1 lb
CHINESE GREEN TOP. The best "Green Top" variety grown; largely grown by Chinese gardeners	10	35	1 20	3 50
EASY BLANCHING. A new variety that is meeting with great favor. The plant grows rather dwarf and compact with foliage light green tinged with yellow. It blanches more easily than any other variety and for that reason can be grown by the amateur gardener with complete assurance that it will equal in quality and appearance the best types found on the market	10	40	1 35	4 00
GIANT PASCAL. Stalks very large, thick, solid, crisp and of a rich, nutty flavor; blanches easily and quickly	10	35	1 20	3 50
GOLDEN SELF-BLANCHING, CALIFORNIA STOCK. Similar to French Stock; seed raised in California from selected plants	10	60	2 00	6 00
GOLDEN SELF-BLANCHING, FRENCH STOCK. See specialty opposite.				
Germain **WHITE PLUME.** We offer a choice strain of this valuable and popular variety. Unsurpassed for fall and early winter use, requiring very little earthing up to blanch	10	35	1 20	3 50

GOLDEN SELF-BLANCHING CELERY SEED (French Stock)

The trial ground test in comparison with samples of seed from thirty growers should prove the selected lot to be as fine seed as can be produced. This is exactly the test we applied to this year's stock of this variety, and even at the present high price of celery seed we are satisfied we are offering the greatest value for the money in this tried and true sort. Celery seed has for many years been a strong item with Germain's for purity and high quality, but with the establishment of our testing grounds we are in a better position than ever to praise this item. It is a thrifty variety, growing 18 to 22 inches in height, very stocky, heavy, perfectly solid and a splendid shipper. It is mild but characteristically flavored, and from every point of analysis is entitled to the mark of approval of this house. Packet 15 cents; ounce $1.50; ¼ pound $5.00; pound $15.00;

CELERIAC

Note—Prices listed are postpaid.

CULTURE—It is grown in nearly the same way as common celery and like this vegetable, requires good rich, moist, mellow, and well-manured soil. It is generally sown in seed beds in February and can be planted until May. When about 4 to 6 inches high the plants should be removed from seed bed and planted 12 inches in the rows and the rows should be about 18 inches apart. Plants require no further attention than frequent watering and is necessary to have the ground well cultivated and free from weeds. See cut below.

	Pkt	Oz.	¼lb	1 lb
CELERIAC, LARGE, SMOOTH PRAGUE. It is a turnip-rooted celery of a distinctive flavor similar to celery. It makes a wonderful salad when cooked and cut cold	10	$ 30	1 00	$3 00

CHERVIL

Note—Prices listed are postpaid.

Perifollo **Kerbel** **Cerfeuil**

CULTURE—The seed may be sown throughout the entire year in open ground where the crop is to be grown, but in very hot weather it is better to sow in a shady position with a northern exposure. The leaves can be cut in from 6 weeks to two months from date of sowing.

The leaves are aromatic and they are used for seasoning and in salads. This vegetable is used a great deal by the English. For further culture same as parsley.

	Pkt	Oz.	¼lb	1 lb
CURLED. Is a vigorous grower, handsome and ornamental. It has a pleasing flavor and is highly recommended for garnishing, also for flavoring soups. See cut below	10	40	1 35	4 00

CHICORY

Note—Prices listed are postpaid.

Achicoria **Cichorie** **Chicoree**

CULTURE—Sow any time except hottest weather, though early spring is preferable, in rows eighteen inches apart and three or four inches apart in row. A deep-rooting plant requiring little care if soil is moist.

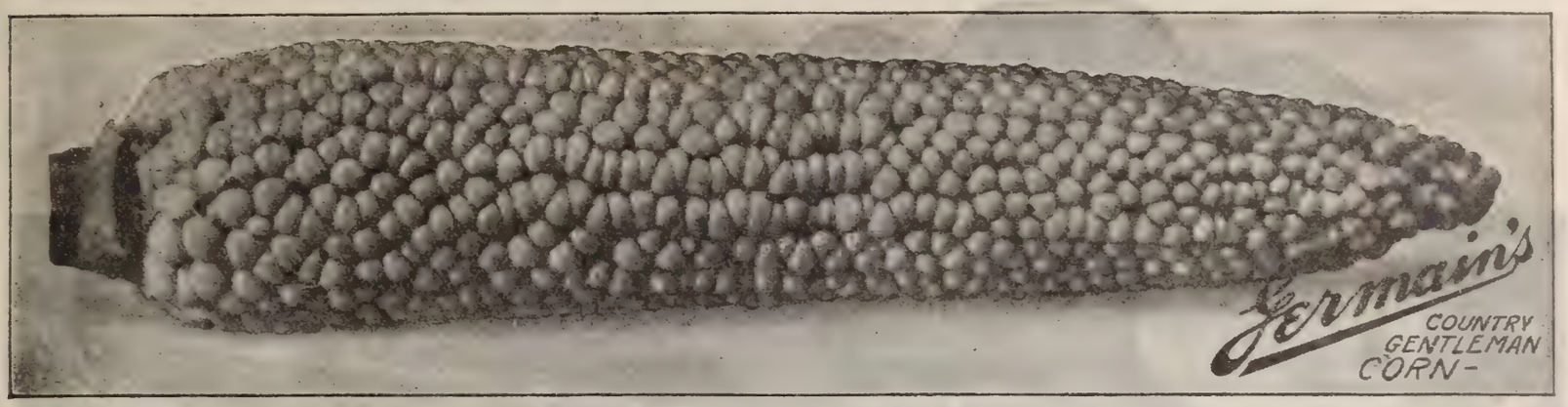
	Pkt	Oz.	¼lb	1 lb
LARGE ROOTED MAGDEBURG. This variety is grown for its roots, which are dried or roasted and ground as a substitute or adulterant for coffee. The leaves can also be used but should be cut when fresh. They make a splendid salad. To secure large roots, soil should be light, rich and deeply worked. Plants should be thinned from 4 to 6 inches apart and the seed sown ⅛-inch deep, using 1 oz. to every 100 feet of row See cut below	10	40	1 35	4 00
WITLOOF OR FRENCH ENDIVE. Is used as a salad and is most delicious served with French dressing and eaten like lettuce. Seed should be sown in June, July and August in drills 12 to 18 inches apart and the seedlings should be thinned out to stand not closer than 3 inches. In the fall, lift the plant, trim off the leaves and store in sandy soil in a cool place until wanted for forcing. The roots should be planted upright about 1½ to 2 inches apart in a trench 16 to 18 inches deep. This brings the neck of the root within 9 inches of the level of the surface of the trench, which should be filled with light soil It requires about one month to force the root. The heads are then cut off with a small portion of the neck of the root attached. We recommend this vegetable to those who enjoy a salad of exceptional flavor. It can be easily grown if these directions are carefully followed. See cut below	10	40	1 35	4 00

LARGE SMOOTH PRAGUE CELERIAC

CURLED CHERVIL

MAGDEBURG CHICORY

WITLOOF CHICORY



CORN

SWEET OR SUGAR

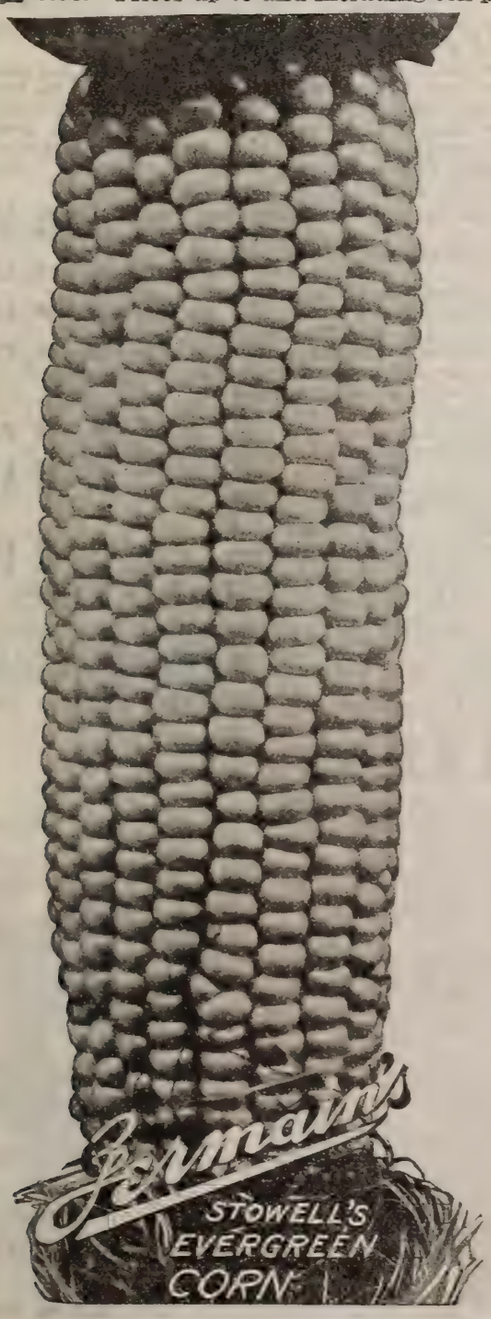
ALL PRICES ON THIS PAGE ARE POSTPAID

Maiz **Mais** **Mais**

CULTURE—Sweet corn should not be planted until in the spring when all danger of frost is past. The soil preferred is one rich and moist. Corn is not a lazy man's crop, as continual cultivation is necessary.

Plant in hills 18 inches apart with rows 3 feet apart. Three or four seeds may be planted in each hill but not more than two allowed to stand. As "suckers" or excess shoots appear they should be removed as they take strength from the mother plant. Whenever soil presents an appearance of drying, irrigate. To prevent the Corn Ear Worm we recommend Corona Dry.

Note—Prices up to and including ten pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. If quantities are desired, do not fail to write for special prices.



GOLDEN BANTAM CORN

It is the sweetest and most delicious corn yet introduced. No garden is complete without it. It is not a new variety as it was introduced more than fifteen years ago and it has been planted in a small way by many of our customers. Golden Bantam is a dwarf, medium early variety. While the individual plant and ear are small, it can be planted so much closer than the larger eared sorts that the net product from a given area is about the same as from ordinary varieties. Its sweetness and reliability place it in the front rank as the home garden corn. It is particularly adapted to the small home garden on account of its small size and to the more pretentious garden be cause of its excessive cropping ability on a stated area. It can be planted in the hills three feet apart each way, or in rows three feet apart and the plants standing singly at nine inch intervals.

Price, packet 10c; pound 40c; 10 pounds $3.50.

	Pkt	1 lb	10 lb	100 lbs.
ADAMS EXTRA-EARLY. One of the earliest varieties; small cob and quite dwarf in growth	10	$ 40	$3 50	WRITE FOR PRICES
BLACK MEXICAN. The sweetest, richest and tenderest of all sweet corn. Turns black only when too old for table use	10	40	3 50	
Germain **COUNTRY GENTLEMAN.** The best for private use. Small white cob densely covered with splendid white grains of delicious flavor. Ears average eight to nine inches. Stalks six feet high, three or four ears to each	10	40	3 50	
EARLY MINNESOTA SWEET. One of the earliest, with ears of suitable size for market purposes	10	40	3 50	
LARGE LATE ADAMS. An ideal variety for August and September planting for late crop. A rapid grower	10	40	3 50	
OREGON EVERGREEN. See page 9	10	40	3 50	
Germain **STOWELL'S EVERGREEN.** The standard sort for main crops everywhere. Ears large, deep-grained, exceptionally tender and sugary; remains tender and eatable longer than any other variety. A general favorite with canners and market gardeners for late use	10	40	3 50	

CORN—FIELD SEE PAGES 43-61

CORN SALAD

Canonigos **Feldsalat** **Mache**

CULTURE—This should be planted in early spring or late summer. It is a hardy plant having no enemies and only requires 60 to 65 days to mature; it however, will not succeed in hot weather but must have cool growing weather. One ounce of seed will sow a row 30 feet long. The small leaves are served like lettuce or for garnishing dishes in the same manner as parsley or cress.

	Pkt	oz	¼lb	1lb
Germain **Fetticus, or Lamb's Lettuce**	10	30	1 00	3 00

CHIVES

Cebelleto **Schnittlauch** **Ciboulette**

CULTURE—The same methods of growing are used as for green onions. However, when the plant is about 2 inches high it should be transplanted to 3 inches apart in rows which are 12 inches apart. Chives are grown for the young leaves which are produced freely from early in the spring throughout the summer. It is a perennial of continuous growth and as the leaves are cut away, new growth comes on. The flavor is mild, resembling that of an onion and is used in soups and various other dishes if onion flavor is desired. For plants see page 128. Per packet 15 cents, oz. $2.50.

CUCUMBERS

☛ **Note**—Prices listed are postpaid.

Pepino **Gurke** **Concombre**

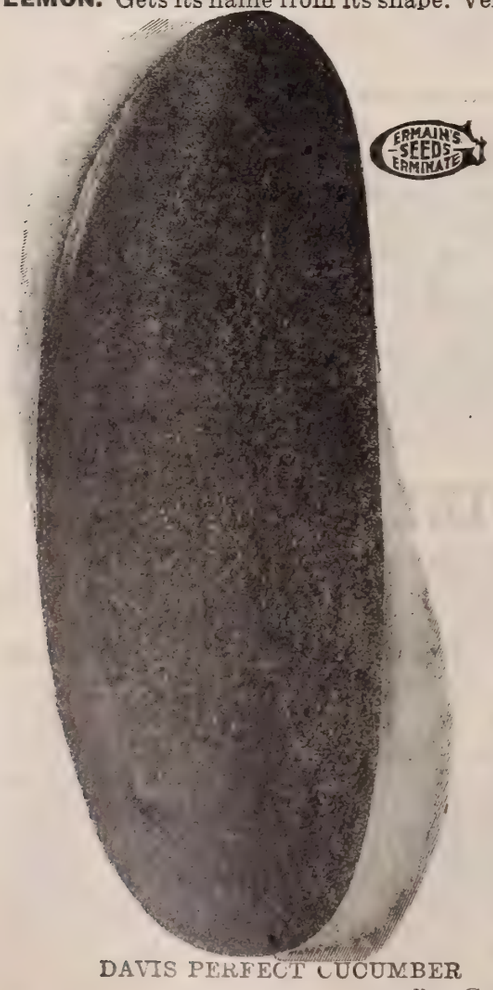
CULTURE—Cucumbers should not be planted until all danger of frost is over and the ground is warm, because like all vine crops the seed is liable to rot unless proper conditions prevail.

Cucumbers should be grown in every garden, for slicing for the table and small fruits for pickling. In most sections two plantings can be made. First, as early as the weather permits, second, the latter part of July or first of August.

The early planting will produce cucumbers for table use and the late planting will give the best supply of young fruits for pickling purposes. Sow 6 to 10 seed in hills 4 to 6 feet apart. After all danger of pests are removed and you are sure of your plants, thin, leaving the three strongest. Cucumbers enjoy a light, sandy, rich soil. They should be planted one inch deep. One ounce will plant 50 hills; 2 pounds, one acre.

DAVIS PERFECT CUCUMBER. Everyone who saw the crop last year says they never saw anything to equal it. Dark, glossy green, slim and symmetrical, with an average length of ten to twelve inches. They hold color till nearly ripe, when they turn white without a yellow streak on them. Quality fine, as seed are very soft when fit for table use. Very tender, brittle and of exceptional flavor. Early as earliest strain of White Spine and outyields all others. Price, pkt. 10 cents; ounce 20 cents; ¼ pound 65 cents; pound $2.00.

	Pkt	Oz.	¼ lb	1 lb
BOSTON PICKLING, OR GREEN PROLIFIC. One of the best pickling varieties; dark green; also excellent for slicing	10	20	50	1 50
CHICAGO PICKLING. A medium sized variety, tapering at both ends with large and prominent spines. Deep green. Fine for pickling	10	20	50	1 50
EARLY WHITE SPINE. One of the best for table use. Vines vigorous, fruiting early and abundantly; fruit uniformly straight and handsome, dark green, with a few white spines; flesh tender and of excellent flavor	10	20	50	1 50
LEMON. Gets its name from its shape. Very early and exceedingly popular in the Los Angeles market. A fine shipper. Every home garden should include this variety. See page 14	10	25	85	2 50
JAPANESE CLIMBING. While all cucumbers are running vines this variety is much more so. It also quickly climbs on poles or trellises. It is entirely distinct. Quality is splendid. Well adapted for pickling as well as for slicing for salads	10	20	65	2 00
Germain **KLONDIKE.** A splendid variety of the White Spine family; very early	10	20	50	1 50
LONG GREEN. Long and crisp; well-known and popular	10	20	65	2 00
NICHOL'S MEDIUM GREEN. One of the best general-purpose cucumbers, the young fruit being very symmetrical in shape, deep in color, very crisp; for slicing there is none better	10	20	50	1 50
WEST INDIA GHERKIN. Oval-shaped; prickly; for pickling only	10	30	1 00	3 00



DAVIS PERFECT CUCUMBER

ENGLISH FORCING, OR FRAME VARIETIES

Superior in every way to the American varieties. Single specimens average twenty-four inches in length. Fruit is crisp and tender, with very few seeds, which makes the price high. They are grown in Europe in the greenhouse, but can be successfully raised out-of-doors in Southern California.

	Pkt	Oz.	¼ lb	1 lb
Germain **IMPROVED TELEGRAPH.** Unquestionably one of the best winter cucumbers; the best for forcing	25			

COLLARDS

☛ **Note**—Prices listed are postpaid.

CULTURE—A plant similar to cabbage. It does not, however, produce a head, the central leaves often forming a loose rosette.

They are tender and are used as a pot herb like kale. They are also desirable as greens for poultry or rabbits. The same culture is applied as to cabbage, except spacing; plant 3 feet apart in rows 3 feet apart when in field.

	Pkt	Oz.	¼ lb	1 lb
TRUE GEORGIA. A strong growing variety with light green leaves	$ 10	$ 20	$ 65	$2 00

CRESS, OR PEPPER GRASS

☛ **Note**—Prices listed are postpaid.

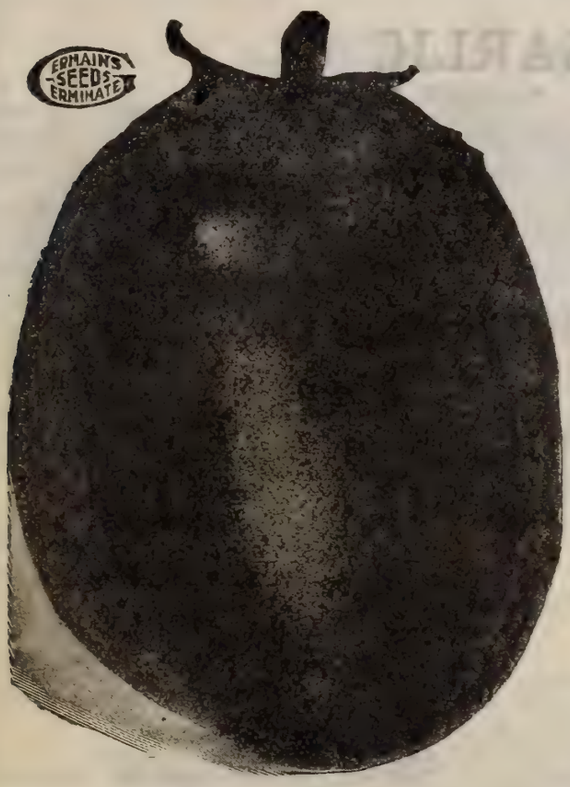
Mastuerzo, Berro **Kresse** **Cresson**

CULTURE—There are many kinds of cress, all characterized by a more or less pungent taste. They are used in salads and for garnishing dishes.

Water cress is grown in almost any ditch, shallow stream, or moist earth and also under benches in greenhouses. It is a perennial and is propagated by scattering either seeds or freshly cut stems where the plants are wanted to grow.

Pepper grass or cress should be sown thickly in drills every few days if a succession is wanted. One ounce will sow 200 feet of row.

	Pkt	Oz.	¼ lb	1 lb
FINE CURLED (PEPPER GRASS). Grown very quickly from seeds sown thinly in drills. Leaves are finely curled and very ornamental but as the plant runs quickly to seed, frequent plantings should be made. The flavor resembles that of mustard	$ 10	$ 20	$ 50	$1 50
WATER CRESS. A heavy foliaged plant, adapted to water culture. It has a slightly pungent taste and finds ready sale on all markets	10	60	2 00	6 00



NEW YORK IMPROVED

DANDELION

Note—Prices listed are postpaid.

Amargon **Kuhblume** **Pissenlit**

CULTURE—It is used for greens and is much prized by epicures. Sow seed in the spring in rows 1 foot apart and thin plants to stand 1 ft. apart in the row. Sandy loam soil is best suited.

	Pkt	Oz.
IMPROVED. An early, large, broad-leaved variety	10	$1 50

EGG PLANT

Note—Prices listed are postpaid. For plants see page 128

Aubergine **Berengena** **Eierpflanze**

CULTURE—The plants should be started under glass if wanted early. If later results are desired, seed should be planted in cold frames or in boxes where special care can be given.

Egg plant seed is very delicate and will not grow unless special care is given it. It is easily affected by cold weather. Seed should be barely covered and particular attention should be given to have well-pulverized soil of rich composition. Moisture is an important factor and care should be taken to have the soil in beds or boxes moist, as any check to growth is exceedingly difficult to overcome and invites failure.

Plants should not be set out permanently until all danger of frost is over, using plants 6 to 8 inches tall of vigorous growth for setting in the field.

Space plants 3 feet apart each way and cultivate thoroughly throughout the season.

	Pkt	Oz.	¼ lb	1 lb
NEW YORK IMPROVED. None of this delicious vegetable has ever been brought to such a state of perfection as GERMAIN'S Strain of New York. An early variety, large, oval-shaped and the deep purple kind that tastes surprisingly like oysters when fried. It has an indescribably delicate and alluring flavor when stewed. This variety is a great producer, 50 to 60 pounds having been grown from one plant. It has been perfected beyond any tendency to pithiness or dryness...	10	75	2 50	7 50

ENDIVE

Escarola o Endivia **Endivie** **Chicoree**

Note—Prices listed are postpaid.

CULTURE—The same as for lettuce.

This plant is highly esteemed by the French people and is their popular salad plant. Those Americans who have used it are unanimous in their praise. There is not sufficient of it planted.

To produce it properly it should be blanched and this can be easily accomplished by drawing the leaves together in a head and tying them together in a head a month before using for the table. One ounce of seed to 100 feet of row.

	Pkt	Oz.	¼ lb	1 lb
BROAD-LEAVED BATAVIAN. Leaves are broad, thick, green and more or less twisted with white midribs. It forms large hearts which when blanched, makes one of the best wintersalads	10	$ 20	$ 45	$1 25
WHITE CURLED. A beautiful variety. The leaves are finely curled or massed and need no tying up to blanch as the coloring is naturally a pale golden yellow. This not only makes it very attractive but easy to grow, as plants can be gathered at any time	10	20	65	2 00

HERBS IN COOKING

Every good cook uses herbs in the culinary art, but comparatively few housewives are acquainted with the delicious and appetizing flavors secured by the addition to many dishes of one or more of the old fashioned herbs. Easily grown in the house yard and preserved for use simply by drying and placing in tight jars, no order for garden seeds should fail to include them.

LONDON FLAG LEEK

THOUSAND HEADED KALE

GARLIC

Ajo **Knoblauch** **Ail**

CULTURE—Garlic is a perennial plant with a bulbous root and belongs to the onion family. It has flat leaves and the bulb is composed of several parts or bulbels similar to those of a multiplier onion set. Garlic has a strong, penetrating odor and flavor and is highly esteemed for flavoring soups, stews, etc. We cannot offer seeds but can supply the bulbs or sets.

Prepare the ground as for onions, separate the sets and plant them in drills eight inches apart and four to six inches apart in the drill, covering two inches deep. Cultivate like onion sets. When the leaves turn yellow, pull bulbs and dry in the shade.

GARLIC SETS. Per pound 40 cents postpaid. Write for price when quantities are wanted.

HERBS

☛ **Note**—Prices listed are postpaid.

POT, SWEET AND MEDICINAL

10 cents per packet.

A well assorted selection of the various kinds of herbs should have a place in every garden. Their value in seasoning and flavoring is well known and appreciated. Care should be taken to harvest on a dry day just beforethey fully blossom.

ANGELICA GARDEN (Archangelica officinalis).
ANISE (Pimpinella anisum).
BALM (Melissa officinalis).
BASIL SWEET (Ocymun basilicum).
BORAGE (Borage officinalis).
CARAWAY (Carum carui).
CATNIP (Nepeta Cataria).
CORIANDER (Coriandrum sativum).
CUMIN (Cuminum cyminum).
DILL (Anethum graveolens).
FENNEL, SWEET (Foeniculum vulgare).
HOREHOUND (Marrubium vulgare).
HYSSOP (Hyssopus officinalis).
LAVENDER (Lavendula vera).
MARJORAM, SWEET (Origanum Majorana).
ROSEMARY (Rosmarinus officinalis).
RUE (Ruta graveolens).
SAFFRON (Carthamus tinctorius).
SAGE (Salvia officinalis).
SAVORY, SUMMER (Satureja hortensis).
SAVORY, WINTER (Satureja montana).
SORREL (See page 28).
TANSY (Tanacetum vulgare).
THYME, BROAD-LEAVED (Thymus vulgaris).
WORMWOOD (Artemista absinthium).

KALE, OR BORECOLE

☛ **Note**—Prices listed are postpaid.

Breton **Blaetterkohl** **Chou Vert**

CULTURE—This is a very popular boiling green and in Southern California can be grown the year around. It resembles cabbage in flavor, is a hardy plant and can be easily grown from seed. Plants are usually cut off when the leaves are 6 inches or more in length, but with the fine curled varieties the leaves can be gathered for use when of good size.

If the tall Scotch variety is planted, the lower leaves should be carefully pulled off so that the plants can grow on and furnish a continuous supply.

This is also true of Jersey or Tree Kale. One ounce of seed will produce 4000 plants. Seed should be sown thinly in drill and reset 12 inches apart in rows 3 feet apart.

	Pkt	Oz.	¼ lb	1 lb
Germain **DWARF CURLED SCOTCH.** Very hardy, excellent for spring use	10	$ 20	65	$2 00
Germain **GREEN CURLED SCOTCH.** The kind most commonly used; grows to a height of eighteen inches; spreads to three feet in diameter; leaves bright green and curled	10	20	65	2 00
Germain **JERSEY, OR TREE KALE.** Of vigorous growth, grown for chickens and stock only	10	20	45	1 25
THOUSAND HEADED KALE. An excellent food for poultry, an immense yielder. Crops are known to have gone as high as 60 tons of green feed per acre. Anyone having poultry should plant it	10	20	50	1 50

Seed should be planted in drills 3 feet apart and the plants transplanted when from 6 to 8 inches high. The plants should be set three feet apart each way.

They grow about 4 feet high with a wide spread of leaves and a single plant often weighs 30 to 40 pounds.

KOHLRABI

☛ **Note**—Prices listed are postpaid.

Colinabo **Kohlrabi** **Chou-rave**

CULTURE—This vegetable is a cross between a cabbage and a turnip. The edible portion is the large bulb which forms on the stem above the soil. We advise successive sowing in order to obtain tender bulbs, which have a mild, delicate, cabbage-like flavor. It is a hardy plant and seed may be sown practically all the year around. Plant it like turnip and thin to six inches apart in row. One ounce seed will produce 2000 plants.

	Pkt	Oz.	¼ lb	1 lb
EARLY PURPLE VIENNA. Very hardy; bluish purple	10	$ 30	$1 00	$3 00
Germain **EARLY WHITE VIENNA.** Flesh white and tender; very productive	10	30	1 00	3 00

LEEK

☛ **Note**—Prices listed are postpaid.

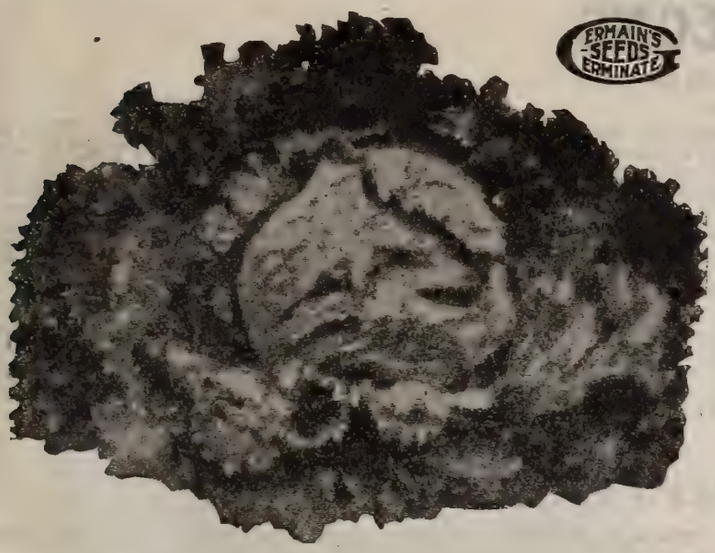
Puerro **Lauch** **Poireau**

CULTURE—Leek is a very hardy plant with a sweet onion-like flavor. It resembles the young onion growth in the spring as it does not bulb.

The neck or stems are blanched by drawing the earth up about them as the plant grows in size or they can be transplanted to trenches and the trench gradually filled as the plant grows. They should be planted in drills or rows 16 to 20 inches apart and the plants 10 to 12 inches apart.

Plant seed in seed bed, broadcast or in drills, covered to depth of one-half inch, and when they are about as thick as a good sized goose quill they should be transplanted.

	Pkt	Oz.	¼ lb	1 lb
Germain **LONDON FLAG.** A large and strong plant; hardy	10	35	$1 15	$3 50



ICEBERG LETTUCE

LETTUCE

Note—Prices listed are postpaid.

Lechuga **Salat** **Laitue**

CULTURE—A world wide grown vegetable because it can be quickly and easily grown, is extremely palatable and very nutritous. Every garden deserves a lettuce plot. The quickest growing types are the loose leaf varieties and we suggest for the home garden a plot of loose leaf and a bed of the heading type. The loose leaf varieties will have matured and be used up by the time the heading types are matured.

The loose leaf Lettuce does not form heads but where the plants are grown a distance apart they make a large rounded cluster of leaves. Leaves are heavily crumpled and attractive in appearance, crisp and tender. We advise the planting of two ounces of seed for a 150 foot row and if the lettuce is too thick, thin after it has attained a size which can be pulled and used for salad or it can be thinned out when young and transplanted to another section of the garden. Lettuce needs considerable moisture, applied often but not too heavily and plenty of cultivation to obtain best results.

HEAD LETTUCE, is so called because of its extremely solid or compact formation. Such types as Los Angeles Market, Wonderful, New York, Big Boston and Iceberg, may be depended upon to satisfactorily mature a firm cabbage-like head.

Heading varieties should be sown the same as loose leaf except that it should by all means be thinned out when the fourth leaf appears leaving plants in the row 10 inches apart.

A rich pliable medium loam soil is best.

Germain RECOMMENDS

ICEBERG LETTUCE

A splendid Head Lettuce. For summer planting—compact, tender, crisp, creamy white heads.

Grows a solid head in midsummer and is highly praised by all users. Grow this large, crisp, tender and sweet summer heading lettuce when other varieties will not head. Germains recognized the superb qualities of this Iceberg Lettuce long ago and with our recommendation it is grown more extensively than any other lettuce during the summer. Pkt. 10 cents; ounce 25 cents; ¼ pound 85 cents; 1 pound $2.50.

CABBAGE OR HEADING VARIETIES

	Pkt.	Oz.	¼ lb	1 lb.
BIG BOSTON. A very deserving smooth-leaved head lettuce, which has not received the attention of California growers as it should. Extremely popular in eastern markets and very successfully grown out here. There was a hundred acre field of this variety grown on our Ranch this year; the heads are absolutely uniform and the quality of the lettuce could not be surpassed	10	20	65	2 00
CALIFORNIA CREAM BUTTER. A fine summer variety; grows slowly and keeps well	10	20	50	1 50
ICEBERG. See Specialty above.				
IMPROVED HANSEN. Very large, sweet, tender and crisp	10	20	65	2 00
LOS ANGELES MARKET. See Specialty on page 11.				
Germain **NEW YORK.** The pride of the Los Angeles market. By far the most profitable lettuce grown. It is shipped from here in carloads, as far as Colorado. Exclusively used by the best Los Angeles hotels. Hardy, uniform size, wavy leaved and blanches beautifully. Crisp, tender, of just the right flavor, it never fails to please. We have gone to great expense to secure the best and we list it with our strongest recommendation	10	50	1 65	5 00
Germain **PARIS WHITE COS.** An excellent variety; large, crisp, tender and of fine flavor; resists warm weather and is the best Cos lettuce. Known also as Romaine Cos.	10	20	60	1 75
Germain **WONDERFUL.** A splendid variety for market orhome use and the best sort adapted for fall sowing. A strong grower, making fine heads	10	50	1 65	5 00

CURLED OR LOOSE LEAVED VARIETIES

	Pkt	Oz.	¼ lb	1 lb
Germain **BLACK-SEEDED SIMPSON.** One of the best; leaves are large, thin and exceedingly tender	10	20	50	1 50
EARLY CURLED SIMPSON. A popular early sort; forms large, loose heads	10	20	50	1 50
Germain **PRIZEHEAD.** Large, loose-headed sort; leave stinged with brown; very heavy	10	20	50	1 50

Prices Subject to Change Without Notice

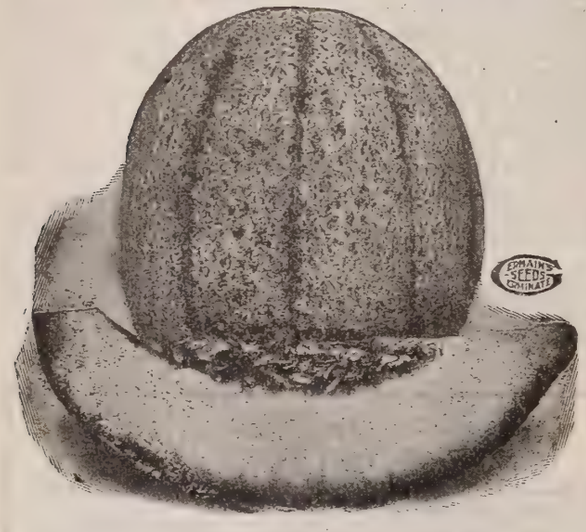
MUSKMELONS

☛ **Note**—Prices listed are postpaid.

Melon Almizcleno **Cantalupen** **Muscade**

CULTURE.—Muskmelons must not under ordinary gardening conditions be planted until all danger of frost is past. This is usually March, and planting may continue until July 15th. Warm ground is essential to the germination of the seed, for if planted too early in the Spring it will rot. It is highly important that your soil should be in proper planting condition. First, it must be thoroughly soaked or irrigated. Second, as quickly as the moisture has thoroughly penetrated and the soil is in a tillable or workable condition, spade or plow the ground and see that it is thoroughly pulverized. Third, prepare furrows 6 to 8 inches in depth and 5 to 7 feet apart according to space you can spare. Fourth, plant the seed in the furrows about 6 feet apart, covering the seed not more than 1 inch deep and as the plant grows, gradually fill up the furrow about it with soil until level with surface.

Continuous cultivation is now necessary and where soil conditions require, systematic irrigation should be followed. Do not, however, irrigate close to the plant as it will cause dampening off, and other diseases. The roots of the plant being as long as the vine, close up irrigation is not necessary and in cultivating see that these roots are not disturbed as it would ruin the plant. Practice frequent shallow cultivation. Plant 8 seeds to the hill and when thoroughly established pull out all but three. Two to three pounds of seed is used to an acre.



THOROUGHBRED ROCKY FORD CANTALOUPE

GREEN FLESHED VARIETIES

	Pkt	Oz.	¼ lb	1 lb
THOROUGHBRED ROCKY FORD. This is considered an improvement on the Rocky Ford; our seed is selected with the greatest care	10	$ 20	$ 50	$1 50
Germain **EXTRA-EARLY HACKENSACK.** Very popular sort, producing large, handsome, extra early melons of best quality. It is some two weeks earlier and almost as large as the famous New Jersey Hackensack; fruit nearly round, deeply ribbed and very coarsely netted. The flesh is green and most delicious	10	20	50	1 50
LARGE HACKENSACK. Large fruit covered with coarse netting; thick green flesh, sweet and fine flavored	10	20	50	1 50
LARGE YELLOW CANTALOUPE. Large oblong-shaped fruit, coarsely netted, ribbed slightly; flesh greenish yellow. Very sweet	10	20	50	1 50
MONTREAL MARKET. A very large, green nutmeg type, almost round, heavily netted; thick, luscious flesh, late and especially adapted to cool climates	10	20	50	1 50
Germain **PINEAPPLE CANTALOUPE.** Large size, early, flesh green and rich flavor. Excellent shipper and a prime favorite with all	10	20	60	1 75

GERMAIN'S "HONEY DEW" MELON

The color of Germain's Honey Dew Melon is a dull creamy white. The rind is very thin and close grained. The flesh is a rich green, very fine grained and exceptionally sweet and juicy. The flavor is indescribably delicious. It is a long keeping melon, remaining in good edible condition for several months. The size is about six to seven inches is diameter from top to bottom and about eight inches wide.

The fact that Germain's Honey Dew Melons may be selected by color when being picked for market enabled the grower to know in advance that his entire shipment is composed of first class melons such as will please the most fastidious trade. This feature makes this melon a very valuable type to grow for market. If you want the very last word in melon flavor, don't fail to plant Germain's Honey Dew. This is the melon that now commands fancy prices in every market. Prices, per packet 10c; per ounce 30c; per ¼ pound $1.00; per pound $3 00.

Mushroom Spawn

Seta **Schwamm** **Champignon**

Cultural instructions for growing mushrooms given free to every purchaser of spawn.

LAMBERT'S PURE CULTURE. This spawn is specially prepared for us and produces results where the average spawn proves a failure. It is a strong strain of spawn thoroughly acclimated to California conditions and selected with reference to earliness, size, flavor, appearance prolificy and quality of the mushrooms that it will produce. We highly recommend this spawn to those who intend to raise mushrooms for the market.

Bricks **40** cents each, 5 bricks **$1.75**, postpaid.

Mustard

Note—Prices are postpaid.

Mostaza **Senf** **Moutarde**

CULTURE—Sow any time in the year, though autumn sowing brings best greens for they revel in cool weather. Not particular as to soil, though a medium heavy one is best.

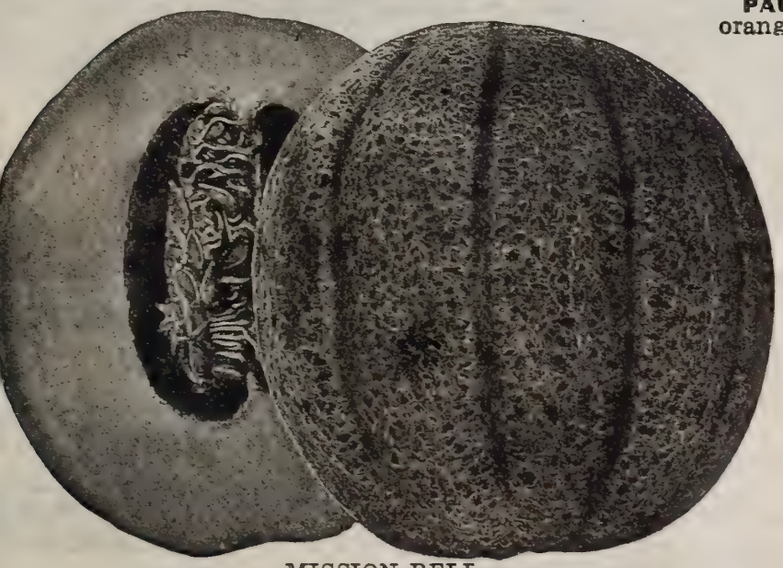
	Pkt.	Oz.	¼ lb	1 lb
CHINESE WHITE. Bak Toi	$0 10	$ .40	$1.35	$4.00
Germain **OSTRICH PLUME.** So called for its feathery appearance; ornamental as well as useful	10	.20	.50	1.50
Germain **SOUTHERN CURLED.** Leaves large, fourteen to sixteen inches in length, which are cooked like spinach, and have a very agreeable flavor. One of the best green foods for poultry	10	.20	.40	1.25
WHITE LONDON. Best for salads or medicinal purposes	10	.20	.25	.75
WILD BLACK MUSTARD	10	.20	.25	.75

MUSKMELONS

Note—Prices listed are postpaid.

SALMON FLESHED VARIETIES

	Pkt	Oz.	¼ lb	1 lb
ROCKY FORD PINK MEAT OR POLLOCK NO. 25. One of the most popular melons used in California for marketing purposes. Salmon colored flesh of fine texture, deep and firm. Probably the most extensively planted melon	10	25	80	2 25
ROCKY FORD GOLD LINED. A perfect shipper due to the hard netted rind. Gets its name from the yellow tinge around the seed cavity. Has best flavor of all Rocky Fords	10	25	80	2 25
PERSIAN. A new variety, yellow flesh, heavily netted but of smooth rind. Very sweet and of distinctive flavor. Splendid keeper—average weight about 7 pounds each—many much larger. See page 12	20	60	2 00	6 00
BANANA. Grows one and a half to two feet in length and three or four inches in diameter; flesh salmon, and exquisitely flavored, resembling banana. Brings a high price in eastern markets	10	20	50	1 50
Germain **BURRELL'S GEM.** A splendid new variety. Superior to Rocky Ford. Flesh thick, salmon in color and fine flavor; rind heavily netted	10	20	50	1 50
Germain **HOODOO.** A new and excellent variety; an ideal shipper of medium size; rind thin; flesh very thick firm and highly colored; of fine texture and delicious flavor	10	20	60	1 75
EMERALD GEM. A small, very early melon; form globular, flesh salmon-colored, exceptionally fine flavor.	10	20	60	1 75
MANGO MELON, or "VINE PEACH;" Fruit is size of a peach, of bright orange color; are not eaten raw but are fine for preserves, pies, pickling, etc. Ripen soon after falling from vine	10	20	65	2 00
MILLER'S CREAM, OR OSAGE. The fruit is large and round, with light green netted skin and thick, sweet, salmon-colored flesh	10	20	50	1 50
NUTMEG TIP TOP. An improved strain; very sweet	10	25	85	2 50
PAUL ROSE. Handsome; oval, new variety; rich orange, flesh very sweet	10	20	65	2 00



MISSION BELL

GERMAIN'S "MISSION BELL" CANTALOUPE

We consider ourselves very fortunate in being able to offer this splendid melon. The flesh is a full salmon color even up to the very rind, and is of unsurpassed flavor, bearing a high percentage of sugar. The rind is heavily netted and the melon is larger than medium size.

Mission Bell is a vigorous grower, early bearer, and if planted a bit late in the season is not so acutely susceptible to frost. An outstanding feature is the keeping qualities, both on the vine and after being picked. For an all round family melon, here is a crackerjack; and as for the market gardeners, we can say Mission Bell is grown by California's most extensive melon growers. You can't beat the Mission Bell. **Pkt. 10c; oz. 40c; ¼ lb. $1.35; lb. $4.00.**

CASABA MELONS

Note—Prices listed are postpaid.

CULTURE—The same as Muskmelon. Follow carefully.

CASABA POINTERS—The Casaba is an exceptionally fine melon if grown, picked and cured properly and to insure success follow our pointers.

1. For early Casabas plant as soon as weather will permit, usually March. For a late crop plant from middle of June to middle of July.

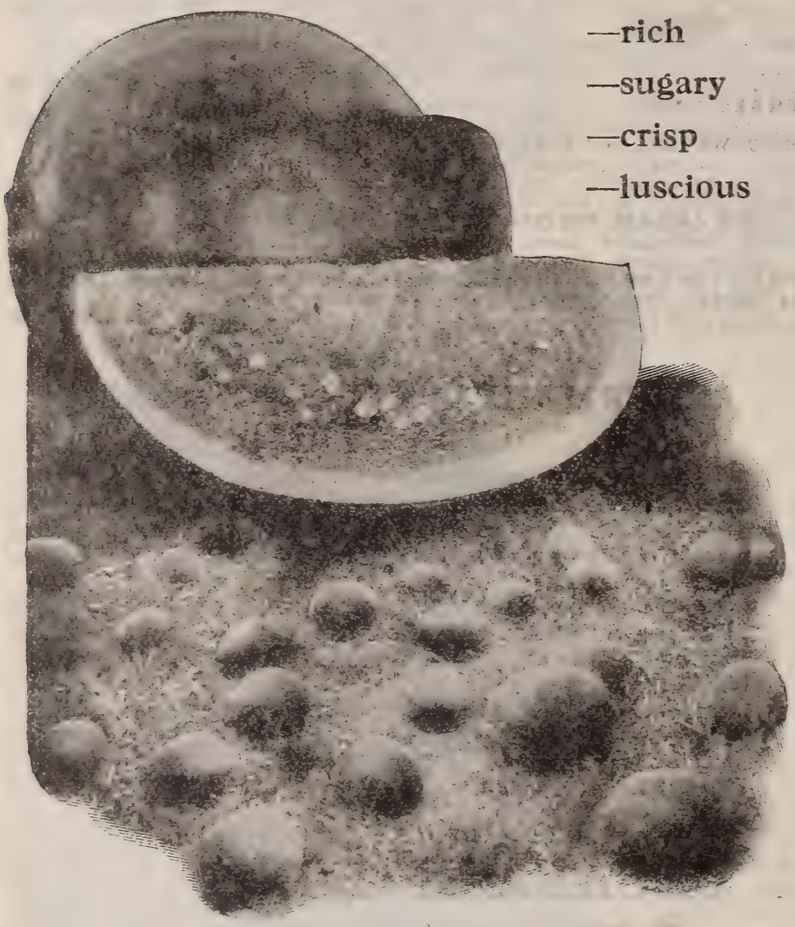
2. Picking at the proper time is very important. If desired for immediate use do not pick until the rind will give under pressure, using the thumb to determine this. If rind is firm the melon is not ripe and full flavor has not yet developed.

3. Casabas can be picked green and held in storage until ripe. Green melons are used for shipments of any distance. Do not pick for shipment until the melon has lost its shiny appearance.

	Pkt	Oz.	¼ lb	1 lb
EASTERN. Long oval-shaped, skin very thin and delicate; flesh extremely tender, rich and sweet	10	20	50	1 50
Germain **GOLDEN BEAUTY.** A variety of Winter Pineapple which it resembles in every way except color	10	25	85	2 50
IMPROVED HYBRID. A variety that ripens late and is a good keeper. Thick flesh of excellent quality	10	25	85	2 50
Germain **SANTA CLAUS.** The latest melon grown. Thin, hard skin with yellowish brown markings, flesh light green and good flavor. Can be picked in September or October and will keep for several months	10	25	85	2 50
Germain **WINTER PINEAPPLE.** A large, late melon, of unique appearance, corrugated skin, green flesh of pronounced pineapple flavor. Melons do not ripen on the vines. Flavor is greatly improved by being stored in a cool place	10	25	85	2 50

Germain's Wonder Watermelons

Four Big Favorites



—rich
—sugary
—crisp
—luscious

The New Black Seeded

Angeleno Watermelon

A combination of the unexcelled qualities of the famous angeleno and the favorite black seeded Chilian. Undoubtedly a melon of par excellence and a prime favorite for the market. The sweet meat of this melon together with its crisp, sugar crystal formation endears it upon first use.

Per packet 10c; Ounce 20c; ¼ lb. 70c· 1 lb. $2.00.

Brazilian Watermelon

You'll like this crisp, refreshing, delicious melon. Hundreds of discriminating market and home gardeners endorse this unusual watermelon.

You'll like its bright red crisp flesh of delicate granulated texture. This melon is the triumphant result of many years of careful hybridizing.

The Brazilian was originated by one of the most successful market gardeners of Southern California. This fact insures its adaption to planting in this section. We have bought the entire seed production ever since its introduction. The melon is oval in shape with a medium thick rind and a beautiful apple green skin. We strongly recommend the Brazilian melon for home use and close-in markets.

Per Packet 10c; Ounce 20c; ¼ lb. 40c; lb: $1.25. Prices are Postpaid.

That wonderful, improved white seeded

Chilian Watermelon

Another unusual melon of exceptional merit. It is extra solid, extra crisp and extra sugary.—a great favorite with growers because of its remarkable eating and shipping qualities. Each melon contains but few seeds and the crisp deep red flesh looks as though frozen to a crystal-like iciness.

Per Packet 10c; Ounce 20c; ¼ lb. 50c; 1 lb. $1.50. Prices are Postpaid.

The fine flavored improved black seeded

Chilian Watermelon

This melon possesses a rich, fruity flavor. It has all the good qualities of the white seeded melon but is a trifle sweeter and has a very thin rind. Home gardeners like this variety because of its moderate size and delicious flavor. We advise you to plant this variety this season.

Per Packet 10c; Ounce 20c; ¼ lb. 50c; 1 lb. $1.50.

THE MELON APHIS

The melon aphis is in some seasons one of the most important enemies of melons and some other crops, and is injurious like other aphides by piercing the plants affected, with its beak and thus sapping their vitality. It occurs from early spring to late in autumn on cucurbits of all kinds, many other crops and weeds of great variety and in its season of abundance, notably following springs that are cool and rainy, it frequently does very serious damage, causing the leaves attacked to curl, shrivel and lose color, interfering with the ultimate development of the fruit, if not killing the plants outright. The melon aphis is variable dark green in color and of sluggish habit.

Method of Control

The severe losses occasioned by this insect in seasons when it multiplies in unusual numbers could be largely mitigated and. in small areas, almost entirely prevented if the employment of methods of destruction were begun upon its first appearance, First of all, it is necessary to familiarize oneself with the insect and the condition of the plants by which its presence is manifest that measures of control may be instituted before it is too late. In ordinary seasons it is controlled by natural elements and insect enemies alone, and when the weather is unfavorable to the development of the latter the grower should be on the alert. The lice may be killed by spraying with tobacco extract such as Black Leaf 40 or Floral Nicotine, or by dusting with Tobacco Dust. Since the insects are usually found on the under sides of the leaves it is very essential that these parts be thoroughly sprayed or dusted. We recommend thorough spraying or dusting as the only means of effectively controlling this insect. See also Insecticide Section in back part of catalog.

WATERMELONS

☛ **Note**—Prices listed are postpaid.

Sandia **Wassermelone** **Melon d'Eau**

CULTURE—The same culture as applied to the Muskmelon is employed in growing Watermelons. Furrows of about 8 inches depth are prepared and 6 to 8 seeds are planted about 1½ inches deep every 10 feet in the furrow; furrows about 8 feet apart.

This plant assumes a more rapid growth than Muskmelons, consequently more frequent cultivation and care must be given while the plants are young. As the plants grow in the furrow, fill in the soil about them so as to establish roots well into the deeper soil and when the plants are securely established pluck out all but two of the most hardy and healthy ones. The furrows in which the plants are growing want to be filled gradually as the plants grow until level with the surface, and then in early cultivating throw the soil towards the plant until a slight knoll or hill is formed.

In irrigating soak ground thoroughly and follow by cultivation as quickly as practicable, in order to keep a permanent mulch and maintain the moisture. Use one and onehalf pounds of seed to an acre.

	Pkt	Oz.	¼ lb	1 lb
ALA RUSS. A new melon that is late in maturing, and for that reason is ideal for the late market. Light in color and about ten inches in diameter. Seeds small black, the flesh being pink and solid. The melon should be allowed to ripen off the vine like a Casaba	10	$ 30	1 00	$3 00
ALABAMA SWEET. A very popular variety in the south, especially in Texas, where they grow it in preference to any other. In shape it is long, color dark green, flesh red and absolutely stringless	10	20	35	1 00
Germain **ANGELENO.** A top notch melon; big producer, excellent shipper, oval shaped and fine color; medium size to large; pick only when green shades to g old. A prime favorite with all	10	20	50	1 50
BLACK SEEDED ANGELENO. See specialty preceding page.				
BRAZILIAN. See specialties on preceding page.				
EXCEL. This is a new variety of black seeded melon that has proven very popular in the south and also in the San Joaquin Valley. Large size, extra good shipper, and heavy yielder	10	30	1 00	3 00
FLORIDA FAVORITE. An old popular, long-stripe melon of good quality	10	20	40	1 25
GEORGIA RATTLESNAKE, OR GYPSY. Standard southern variety, which possesses remarkable shipping qualities; oblong, scarlet flesh, crisp and juicy	10	20	40	1 25
GERMAIN'S IMPROVED BLACK SEEDED CHILIAN. See specialty on preceding page.				
GERMAIN'S IMPROVED BROWN SEEDED CHILIAN	10	20	50	1 50
GERMAIN'S IMPROVED WHITE SEEDED CHILIAN. See specialty on preceding page.				
KLECKLEY'S SWEET. This new melon is one of the best for the home market or family use. The melons are large, eighteen to twenty inches long and ten to twelve inches in diameter, dark green rind thin, flesh scarlet and very sweet	10	20	40	1 25
KLONDIKE. One of the sweetest and most prolific melons. Seeds one-half as large as in other melons. Although not a good shipper, good for local consumption. See page 13	10	40	1 35	4 00
Germain **TOM WATSON.** An exceedingly popular melon in the South. Fruit large, running at times as high as sixty pounds. Rind thin but tough, consequently a good shipper. A dark green in color with flesh a brilliant scarlet. Very large with small seed area. An early variety of delicious flavor	10	20	50	1 50
YELLOW-FLESHED ICE CREAM. The melon grows very large, of oblong shape, the flesh is a beautiful yellow, and has a peculiar, delicious flavor, different from any other variety	10	20	50	1 50

ANGELENO

PRESERVING MELON

☛ **Note**—Prices listed are postpaid.

	Pkt	Oz.	¼ lb	1 lb
COLORADO PRESERVING CITRON. Excellent for making preserves	10	20	45	1 25

STOCK MELON

☛ **Note**—Prices listed are postpaid.

	Pkt	Oz.	¼ lb	1 lb
GREEN SEEDED CITRON. A hardy, productive variety for feeding purposes	10	20	40	$1 00
RED SEEDED CITRON. Same as green only red in color	10	20	45	1 25

ONIONS

Cebolla **Zwiebel** **Ognon**

Note—Prices listed are postpaid.

CULTURE—Many different methods of planting onions are in practice but the one most practical to the general market grower is the following method:

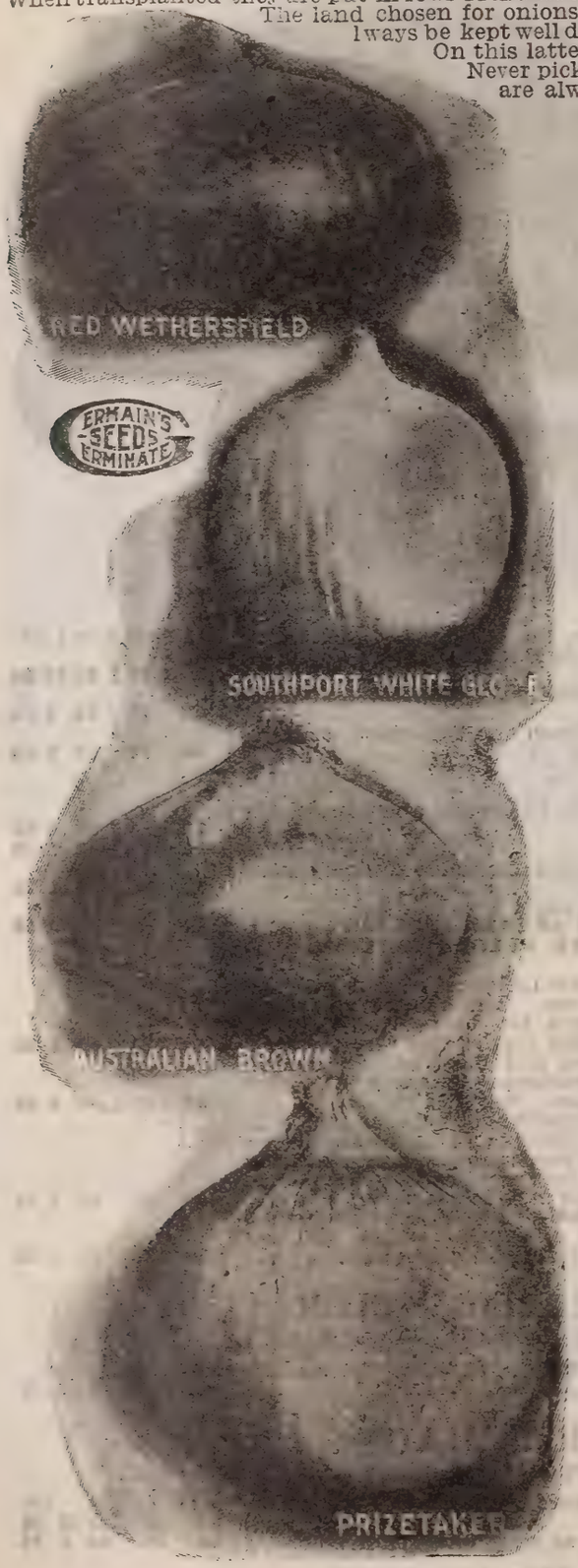
Planting in this section usually starts in December, January and February unless the season is exceptional and then possibly earlier.

The primary requisite is good seed and in this we excel, our seed being produced by experts who have been growing for us for years and our trade has been greatly increasing due to the excellence of our seed.

Sow onion seed with a seed drill in rows 14 inches apart, using on this basis from 4 to 4½ pounds of seed per acre. The land must be thoroughly plowed, disked, and harrowed when necessary. It is impossible to prepare your land too carefully in growing the onion as it responds readily and in order to get maximum yields, thorough preparations must be made.

As soon as the plants appear, hand weeding must start both in and between the rows. From this point on the plants must have a steady even growth as a check whether from disease or drought will cause them to go to seed extensively. When the onions are ready for harvesting the tops will be well ripened down. If, however, the tops are still green we would suggest running a light roller or plank over the field to press them down. In ten days after this operation the onions should be pulled and left in the field one deep to dry. When thoroughly dried the tops can be removed. However we do not recommend this until ready to ship to market. If the onions are to be kept any period of time they should not be sacked but put on a floor or in a bin where there is a complete circulation of air. In some localities the transplanting system is followed. If this is done the seed should be planted in beds during August and September and transplanted to permanent field during February and March. The seed should be sown broadcast in the bed about ¼ of an inch deep. When transplanted they are put in rows 14 inches apart and 6 inches apart in the row.

The land chosen for onions should be damp or easily irrigated, preferably loose sandy loam or peat and should always be kept well drained. Heavy adobe or clay soil is good but here irrigation must be carefully practiced. On this latter soil onions do not color up as well nor are they as even in shape as on lighter soil. Never pick weedy land for onions and avoid lands just free of grain crops. Garden lands are always preferable. Repeated planting for more than two successive seasons on the same ground is not advisable as onion diseases are bound to appear.



AUSTRALIAN BROWN ONION

The first requirement of the market gardener in selecting an onion is its shipping quality. The producer for home use finds this feature of equal value, for it insures him a prime supply of the vegetable in the cellar bin at all times. In stocking the Australian Brown, Germain's are entirely satisfied that under the most adverse conditions the grower will be more than pleased with this variety. The flesh is pure white, close layered, juicy and tender, growing to a good size. This hardy variety does especially well in the South, and when planted in rich, sandy soil and given an abundance of water, will produce more to the acre than any onion that has come under our observation. Germain's customers will not regret planting the Australian Brown, and we are pleased to note that we are stocked to take care of all orders. Pkt. 10 cents; ounce, 20 cents; one-fourth pound, 60 cents; one pound, $1.75.

	Pkt	Oz.	¼ lb	1 lb
AILSA CRAIG. A large variety of the Spanish type. Grows to a very large size, very often weighing over two pounds and measuring more than five inches in diameter. The skin is straw color. flesh pure white, and tender and mild	10	60	1 65	5 00
AUSTRALIAN BROWN. See specialty above.				
Germain **BERMUDA RED.** An early variety resembling the White Bermuda, except in color, which is a pale red, flesh crisp and mild flavor. Fine market onion. (Teneriffe-grown)	10	35	1 20	3 50
Germain **BERMUDA YELLOW ONION.** This variety is more extensively grown for the early market than any other. Being ready for shipping when the storage supply is exhausted they bring the very highest price. Our stock of seed is from the Island of Teneriffe, grown by the most reliable seed grower in that celebrated district. A large, flattish onion, very mild and of a pale straw color	10	50	1 65	5 00
Germain **CRYSTAL WHITE WAX.** A large white onion of the Bermuda-type, becoming more popular every year. It is very early, mild in flavor. Excellent shipper and keeper. The seed is very generally sown in beds, and transplanted to the fields when partly grown. Our stock of seed is from the same Teneriffe grower that has supplied us with our fine strain of White Bermuda seed for years. While the supply is limited we are able to offer	10	75	2 50	7 5
DENIA. A Spanish type, with large globular shape somewhat flattened on under side. Mild flavor, and heavy yielder	10	35	1 15	3 5
GERMAIN'S GREAT BUNCHING ONION. See following page				
LARGE RED WETHERSFIELD. One of the leading varieties for many years. In color the skin is a deep purplish red. The flesh is white, tinged with red, and of good quality, crisp and solid. It grows to a large size and is both a good keeper and shipper. Our strain of seed of this onion is very fine	10	20	65	2 0
Germain **MAMMOTH SILVER KING.** A large white onion with a silvery skin, flattened on top but quite thick. The flesh has a mild, pleasant flavor, and is so sweet it can be eaten like an apple. They have been known to weigh over three pounds, and yield at the rate of 4,000 pounds to the acre. They mature early and are good keepers	10	50	1 65	5 0
NEW QUEEN.	10	40	1 35	4 0
Germain **PRIZE-TAKER.** The largest of the yellow onions, globular in shape, of a pale straw color. Produces enormous crops; bulbs frequently weigh as high as three pounds	10	20	65	2 0
Germain **SOUTHPORT WHITE GLOBE.** A great yielder, fine grained and firm; flavor mild	10	30	1 00	3 0
SOUTHPORT YELLOW GLOBE. The Southport Onions are handsome globe-shaped bulbs of excellent quality, uniform in size and fine keepers. The yellow is one of the earliest	10	25	85	2 5
SWEET SPANISH ONION, see page 14	15	75	2 85	7 5
Germain **WHITE PORTUGAL, OR SILVER SKIN.** One of the leading white sorts, of beautiful shape and very mild flavor. The bulbs are flat and mature early. Splendid variety for market garden. Bulbs average two to three inches in diameter	10	25	85	2 5
Germain **YELLOW FLAT DANVERS.** This is one of the very earliest varieties, a good shipper and keeper. Flat in shape, of straw color and mild in flavor	10	20	60	1 7
YELLOW GLOBE DANVERS. A well known early onion of fine quality. Flesh white and firm. Color a bright orange; grows to a good size, hardy, a sure cropper and a good keeper	10	25	85	2

GERMAIN'S GREAT BUNCHING ONION

This variety fills a long felt need for both the amateur and the professional gardener. It produces the long, tender and sweet green onions which are justly so popular on the table of those who enjoy good eating. It can be easily grown in every garden. Pull while medium sized before the bulb has formed. Price, packet 10 cents, ounce 25 cents, ¼ pound 35 cents, pound $2.50. Prices are postpaid.

ONION SETS

ONION SETS

Note—Prices up to and including ten pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. If quantities are desired, do not fail to write for special prices.

Grown from seed that has been sown too thickly to attain a large size. These small onions are planted out and are soon ready to pull for the table or bunch for market. If left to stand they make ripe onions of excellent quality. Maturing about six weeks earlier than crop grown from seed.

	1 lb	100 lb
BERMUDA. We can supply from July 1st until October 1st		Write for prices in large quantities
BROWN AUSTRALIAN	40	
WHITE PORTUGAL	40	
YELLOW DANVERS		
GARLIC SETS. See page 28		

OKRA

Note—Prices listed are postpaid.

Quimbombo **Ocher** **Gombaud**

CULTURE—Seed can be planted from the middle of March until the latter part of August. Plant in rows 8 inches apart in rows 3 feet apart. Plant seed 1½ inches deep. One ounce of seed will sow 50 feet of row. This vegetable produces long and nutritous pods which when young are used in soups and stews, to which they impart a rich flavor.

	Pkt	Oz.	¼ lb	1 lb
EARLY DWARF. Dwarf, stocky growth, heavy bea er. The pods are of medium length, greenish white, tender and of good quality	10	20	45	$1 25
LONG GREEN. Later and more productive; ribbed pods	10	20	45	1 25
Germain **WHITE VELVET.** Pods round, smooth, free from seams; exceedingly tender, well flavored and very prolific	10	20	45	1 25

PARSLEY

Note—Prices listed are postpaid

Perijil **Petersilie** **Persil**

CULTURE—Same as Lettuce, see page 29.

Every garden should include parsley as its demands and uses are constant by the housewife. Being ornamental, it makes a very attractive border plant for the flower garden. It may be planted as such if you have not room in the vegetable plot.

	Pkt	Oz.	¼ lb	1 lb
Germain **CHAMPION MOSS-CURLED.** Vigorous compact-growing variety; excellent for garnishing and flavoring; also a handsome decorative plant; leaves fine and crisp, resembling moss; a most popular sort for the market and home garden	10	$ 20	$ 45	$1 25
FERN-LEAF MOSS. Most exquisite in form and color; exceedingly fine for garnishing and flavoring	10	20	45	1 25
Germain **HAMBURG, OR TURNIP-ROOTED.** The roots are excellent for flavoring soups	10	20	50	1 50

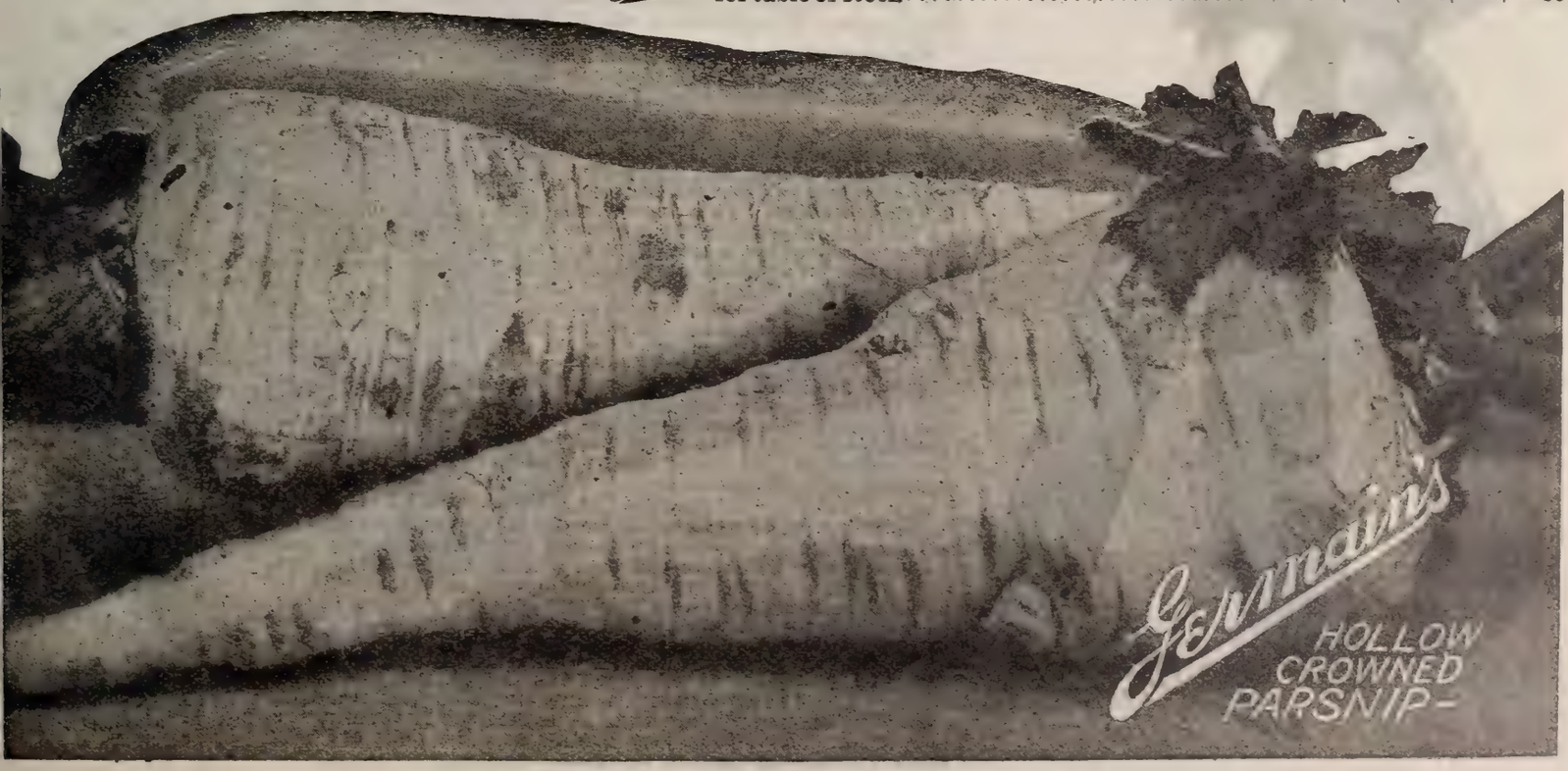
PARSNIP

Note—Prices listed are postpaid.

Chirivia **Pastinake** **Panals**

CULTURE—Sow any month in the year in drills of rich soil one and one-half inches deep and fifteen inches apart, and cultivate the same as carrots; thin to four inches apart. One ounce of seed will sow about 100 feet of row.

	Pkt.	Oz	¼ lb	1 lb
Germain **HOLLOW-CROWNED.** Best parsnip grown either for table or stock	10	20	45	1.50



PEAS

Chicharos o Guisantes Erbsen Pois

Note—Prices up to and including ten pound quantities include postage or expresssage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1. If quantities are desired, do not fail to write for special prices.

CULTURE—We classify Peas into three distinctive types. First early, second or medium early, and late. Of the early peas, we recommend Nott's Excelsior, American Wonder and Gems. These planted in August and September will come into bearing for the early high price market. For the home garden first early the little Marvel should be used. The main market gardeners crop is of the second early type and we recommend the Stratagem and Admiral or Senator for this planting. Of the late peas the Telephone is to be preferred.

Peas may be planted in almost any kind of soil. In light soil during the warmer months they should be planted about 3 inches deep so as to be near moisture. In heavier soils or in fall months plant about 1 inch deep, that warmth may penetrate and help germinate the seed.

Excessive moisture will rot the seed, so do not irrigate after seed is planted until the plants are well out of the ground; this is an important point. Cultivate after each irrigation. Usual planting is at rate of 60 pounds per acre.

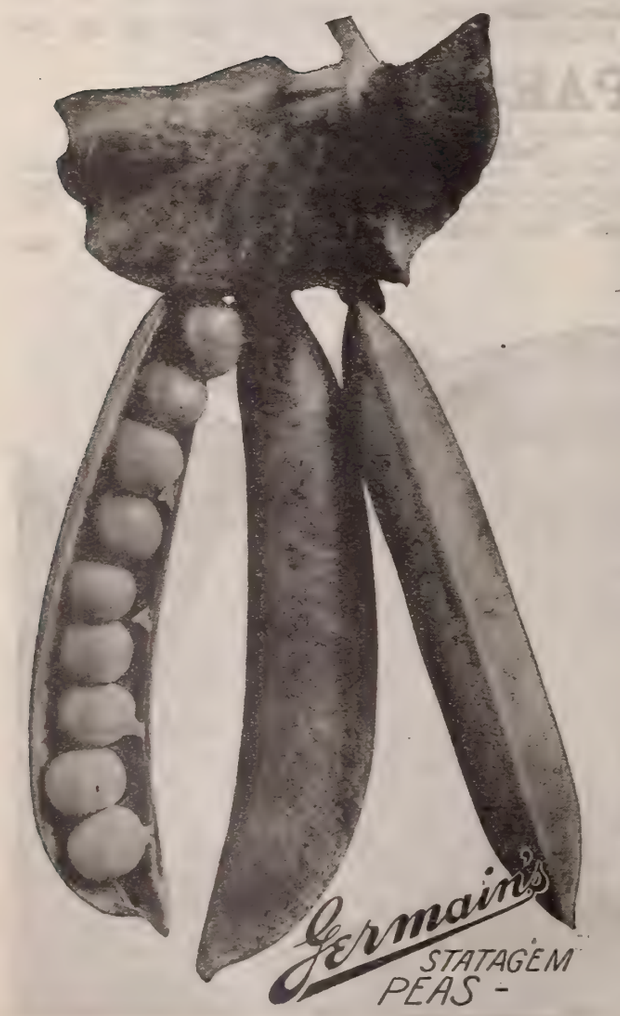
One of the commonest diseases of peas is Mildew, which is overcome by thorough dusting with sulphur in the early morning while the plants are still moist with dew.

FIRST EARLY VARIETIES

	Ht.ft	Pkt	1 lb	10 lb	100 lb
AMERICAN WONDER. This is an early wrinkled pea of dwarf habit, the vines generally being about a foot high. Especially good for the private garden. It is quite distinct from other peas, being very stocky and erect. Very prolific...	1	10	40	3 50	WRITE FOR PRICES
DWARF TELEPHONE. This is a dwarf growing strain of the "Telephone" variety.....	2	10	40	3 50	
GRADUS. An early wrinkled Pea of the finest quality, bearing large pods well filled with the sweetest peas you ever ate. It is not only large and of good quality, but it is also one of the very earliest sorts, and brings the best prices. The demand for these peas from the hotel and choice trade is never supplied. Market gardeners should plant a liberal acreage of this variety. Does best in loamy soil.....	3	10	40	3 50	
LAXTONIAN. A fine wrinkled pea, being the largest podded of the dwarf varieties. The pods are similar to Gradus in shape, color and quality.....	2	10	40	3 50	
LITTLE MARVEL. One of the first among the early varieties, bearing its peas in groups of two to a stem. The peas are small, the pods well filled, of delicious flavor, being exceedingly sweet.....	2	10	40	3 50	
Germain **McLEAN'S LITTLE GEM.** A dwarf first early pea of unusual value. Vines average fifteen inches in length; they bear pods about two and a half inches in length, often borne in pairs when mature, always tightly filled with peas of excellent flavor. As early as any but with a larger pod than most early varieties.....	1	10	40	3 50	
Germain **NOTT'S EXCELSIOR.** A splendid dwarf wrinkled sort, one of the best, hardy, vigorous, and will mature almost as soon as the smooth varieties, often ready to pick in fifty days. The pods usually contain from seven to nine peas. Tender and of fine flavor. This variety is rapidly growing in favor for early planting, as its hardiness and quick growth make it a very profitable market pea.....	1½	10	40	3 50	
PREMIUM GEM. A fine early wrinkled pea with vines about fifteen inches high, pods long and produced in abundance. A profitable market variety excellent for private use.	1½	10	40	3 50	

SECOND EARLY VARIETIES

	Ht.ft	Pkt	1 lb	10 lb	100 lb
ADMIRAL OR SENATOR. A new sort introduced on our local market about three years ago. It is a good second early pea, has thick green foliage, and bears abundantly, large well-filled pods. We consider it one of the best peas for our local markets.....	2	10	40	3 50	WRITE FOR PRICES
DWARF SUGAR or EDIBLE POD. A low growing vine bearing large sweet pods that can be cooked and used the same as stringless beans. Vines bear heavily of peas that have delicious flavor.....	2½	10	40	3 50	
JUNO. Ideal for main crop. Resists heat perfectly. Dwarf, wrinkled pea, of hardy, vigorous and prolific growth. Long pods, containing 7 to 9 peas of best quality. Sometimes known as Dwarf Champion.....	2	10	40	3 50	
STRATAGEM. This variety has come into prominence on the Los Angeles due to the fact it is exceedingly prolific and sweet, and has a tendency to keep well after picking. The majority of peas purchased at the corner grocery or fruit stand are this variety. For the market gardener they are exceedingly profitable, and as it is profitable for him to grow them, it is also for the home gardener. It is the main crop variety which grows without any supports. A plot planted to this variety will be very profitable. See page 10.	2	10	40	3 50	
YORKSHIRE HERO. Its strong, vigorous growth makes this pea especially valuable to the market gardener and in the home garden that is not too well taken care of, it will naturally be found the most healthy and productive of all the vegetables. It grows bushy, yields prodigiously, pods are filled with delicious peas.....	2	10	40	3 50	



LATE VARIETIES

	Ht.ft	Pkt	1lb	10 lb	100 lb
Germain **ALDERMAN.** A wonderfully well flavored Pea and one that is bound to be sold largely in this market. In habit, the vines are tall and branching, bearing large deep green, straight and handsome pods, averaging 4½ to 5 inches in length. When it is well known, this pea to our notion is bound to supersede the "Telephone". Do not fail to include the Alderman pea in your order, and if you are a market gardener and desire to grow a Telephone pea, specify Alderman. It will make you money.....	5	10	40	3 50	Write for Prices
Germain **TELEPHONE.** A fine wrinkled pea growing about four feet high. The peas are large, and of a pale green color. It is very prolific and the pods are very large, containing eight or ten peas.....	5	10	40	3 50	

PEPPERS

☛ **Note**—Prices listed are postpaid.

Pimiento **Pfeffer** **Piment**

CULTURE—For early market peppers, seed should be planted in hot beds during November and December, and when the plants are of proper size and the danger of frost is passed they should be planted in the open field or garden or the plants may be planted direct to the open ground before the frost period is over if they are given proper protection.

To harden off plants before setting out remove covering of hot bed during warmer part of the day, being sure to replace same as it starts to turn cool in the evening.

For main crop, plant in the hot bed during February, March and April; in later planting cold frames may be utilized. As pepper seed demands ideal conditions for growing, do not attempt to plant the seed in the open unless it be in the summer when the air and ground are warm. A loose sandy loam soil is best. One half pound of seed will produce enough plants for an acre. **PLANTS, see page 128.**

GERMAIN'S PERFECTION PIMIENTO PEPPER

California is famous for her production of all kinds of peppers among which the Pimiento stands pre-eminent among the home garden types. All home gardens should include Germain's Perfection Pimiento Pepper which is unquestionably the most wonderful home pepper ever offered by any seedman. It is of brilliant red color, fine texture, but of thick flesh, with a semi-sweet tasty flavor. The absolute absence of any hot tendency insures just the right delicate touch in making up salads, finishing appetizing steaks, or as a stuffed side dish. To those who know the eating qualities of an unexcelled pepper, we need say no more, and to those who have never knows it, we can only say that you have missed a rare reat, and by all means should see that it has a place in your garden.

Price: Packet 10c: Ounce 60c; ¼ lb. $2.00; 1 lb. $6.00.

	Pkt	Oz	¼ lb	1 lb
Germain **ANAHEIM CHILI.** (Chili Caliente). The country around Anaheim is the greatest pepper growing section in the world, the shipments running over 100 car loads a year. Our seed is selected from the finest and most productive fields in that vicinity and is certain to produce splendid crops. This pepper is from 6 to 8 inches long and tapers from 1½ to 2 inches in diameter at the top to a point. When dried it is a brilliant scarlet.	10	$ 50	1 65	$5 00
Germain **BELL, OR BULL NOSE.** Early, sweet and of good flavor	10	80	2 65	8 00
CAYENNE. Pods small, long and tapering; coral red when ripe, very hot and strong, best kind for seasoning pickles; the Cayenne Pepper of commerce	10	80	2 65	8 00
CHINESE GIANT PEPPER. A pepper of exceptional merit. It is very mild in flavor and is an ideal variety for the home garden. Produces enormous peppers measuring as much as five inches broad at the top and of equal length. It is highly productive, plants being so thickly covered that they appear to bear in clusters. Its flesh is thick, solid, but of fine texture making the ideal stuffing pepper, for which purpose it is greatly and rightly famed. See page 15	10	80	2 65	8 00
MEXICAN CHILI. The pepper that has made the tamales of Mexico famous is becoming very popular in the Southwest. Our seed is obtained directly from Mexico. It is a medium size, pear-shaped pepper, and turns bluish black when dried	10	50	1 65	5 00
PERFECTION PIMIENTO. See above	10	60	2 00	6 00
RUBY KING. A large growing sweet pepper of the Neapolitan type; strong grower and prolific	10	80	2 65	8 00

Prices Subject to Change Without Notice.

WINTER LUXURY PUMPKIN

PUMPKINS

Note—Prices listed are pstpoaid.

Calabasa **Kuebis** **Courge**

CULTURE—Pumpkins grow and thrive in most any soil. A well-drained soil subject to irrigation is best. Pumpkins like other vine crops, should be irrigated carefully, not allowing the water too close to the main stock. As the roots are long, irrigation can be made at the ends of the vine. When the fields are covered by vine, irrigate midway between the rows. Too much water is very detrimental to the vines. Plant hills 8 to 10 feet apart each way, placing 4 seeds to a hill and after established pull out all but the one healthiest plant. Use one pound of seed per acre.

	Pkt	Oz.	¼ lb	1 lb
BOSTON PIE OR SMALL SUGAR. A very popular small variety. The skin is a deep orange yellow and the flesh sweet and fine grained. As famous in Boston as the Boston Beans	$ 10	$ 20	$ 50	$1 50
CALIFORNIA FIELD. Selected, very large, for stock	10	20	45	1 25
CHEESE. Size large; reddish orange; flesh thick, fine and sweet; keeps well	10	20	35	1 00
Germain **CONNECTICUT FIELD, OR JACK O'LANTERN.** A fine variety for dairy ranchers, adding much to the quality and quantity of the milk and butter; an excellent keeper and can be strongly recommended	10	20	35	1 00
CUSHAW, OR CROOK-NECK. Solid, fine, sweet; keeps well.	10	20	50	1 50
JAPANESE PIE. The flesh is nearly solid; the seed cavity being very small, fine grained, dry and sweet having much the taste and appearance of sweet potatoes. They ripen early, keep well and are fine for home use	10	20	35	1 00
KENTUCKY FIELD PUMPKIN. A heavy fleshed and remarkably sweet pumpkin. A splendid keeper and a fine sort for family or market use. Its large size makes it desirable for stock also. Especially adapted to Southern California conditions.	10	20	35	1 00
Germain **MAMMOTH KING or POTIRON.** The best large pumpkin in use. Forms immense globular melons, flattened a little at the end. Skin reddish yellow in color and flesh rich orange. This is unquestionably the very best mammoth pumpkin we have. It runs very uniform in shape and color and all are of immense size	10	20	50	1 50
Germain **MAMMOTH TOURS PUMPKIN.** This pumpkin should be called the Prizetaker on account of its immense size, fine color and thick flesh. It is not only a fine stock food, but its rich flavor makes it valuable for canning or home use. It is a rapid grower and often attains a weight of 150 pounds	10	20	50	1 50
Germain **SWEET OR EARLY SUGAR.** This is the small, sweet pumpkin that has made the New England States famous for their pumpkin pies. Fine-grained	10	20	50	1 50

RHUBARB OR PIE PLANT

Ruibarbo **Rhabarber** **Rhubarbe**

CULTURE—Rhubarb seed requires considerable care and is discriminating as to where it grows. A rich light sandy loam is its delight and seed planted in this type of soil, about ¾ inches deep in rows which are 12 inches apart, in the early spring say February will be ready to transplant in from 4 to 6 months time. When they are as large as one's finger transplant the roots to mellow soil as described above, in rows 5 feet apart and about 3 feet apart in the row. The roots should be set in ridges with the crown even with the surface of the soil. The ground should be kept well cultivated and irrigated the first season and stalks may be pulled early the next spring.

RHUBARB ROOTS, see page 128

Germain RECOMMENDS

WAGNER'S GIANT SEEDLING RHUBARB

It is grown from the seed of the famous Giant Rhubarb. Our seed was secured from Mr. J. B. Wagner, the originator and most prominent Rhubarb expert in the world, and is the best that can be gotten. Wagner's Seedling will yield as high as 20 tons per acre, is a strong rapid grower, and very much more productive than the Crimson Winter. It comes on soon after planting, and unless the ground is frozen it keeps on growing constantly. The stems are twice as large as the Crimson Winter, are hardy in any climate, and will grow and yield handsome returns where the common Crimson variety will be a failure. It is unsurpassed either in flavor, texture, size, or hardiness. Germain strongly recommends this variety as the most profitable that can be grown, and is proving itself a tremendous money maker. Price, packet 10 cents, ounce $1.20, ¼ pound $4.00, pound $12.00.

We especially call your attention to the roots of this variety, a description and prices of which will be found on page 128.

RADISHES

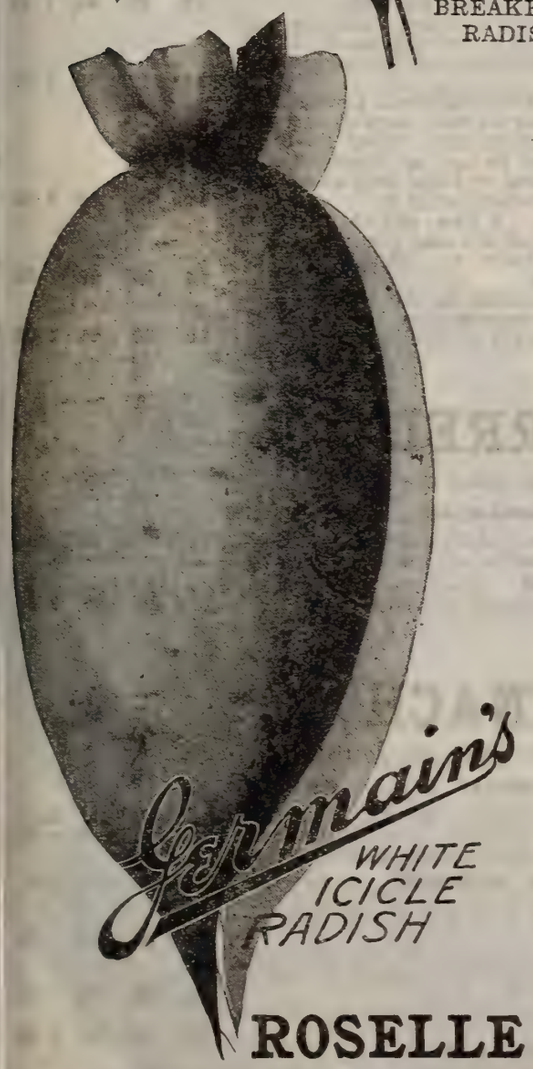
Note—Prices listed are postpaid.

Rabano **Radies** **Radis**

CULTURE—Sow any month of the year; will succeed in any good garden soil not over-moist or too heavy. For early and late crops a warm, sheltered situation should be chosen; for those sown in summer, a rather shady spot must be selected. For a succession, sow every two weeks. The ground where the sowing is to be made should be dug deep and raked fine. The seed is generally sown thinly broadcast, in beds four to five feet wide, with one-foot alleys between. One ounce of seed will sow about 100 feet of drill, or a bed forty square ft.

FRENCH BREAKFAST RADISH

	Pkt	Oz.	¼ lb	1 lb
BLACK SPANISH WINTER, LONG. Grows to a large size, of oblong shape; quite solid	10	20	50	1 50
Germain **BLACK SPANISH WINTER, ROUND.** Similar to the long, except in form	10	20	50	1 50
Germain **CALIFORNIA MAMMOTH WHITE.** A winter sort introduced into California by the Chinese; eight to twelve inches long and two inches in diameter, flesh white, firm and excellent flavor	10	20	55	1 75
CHARTIER. A long, smooth radish, red above and shading to clear white at the tip	10	20	50	1 50
Germain **CHINA ROSE WINTER.** Medium size, oblong, of a bright rose color; one of the best varieties for winter use	10	20	50	1 50
CRIMSON GIANT TURNIP. Twice as large as any other turnip-shape variety; does not get hollow or pithy; flesh white, solid, crisp and mild flavor. Excellent for forcing in open ground	10	20	50	1 50
Germain **EARLY LONG SCARLET SHORT TOP.** Without exception the best long bright scarlet radish, very brittle and sweet, matures in twenty-five to thirty days. Very attractive and adapted to the home or market garden	10	20	50	1 50
EPICURE. See specialty page 15.				
Germain **FRENCH BREAKFAST.** An early variety with good flavor and very pretty, being a light scarlet tipped with white. A favorite wherever known	10	20	50	1 50
JAPANESE SUMMER RADISH. Introduced by Japanese in Southern California some years ago, and has become a great favorite. Grows as long as twenty-four inches and three inches in diameter; very tender, mild and of excellent flavor; always finds a ready market	10	25	85	2 50
JAPANESE WINTER RADISH. Strongly resembling the Japanese Summer Radish, excepting in size; grows to eight or ten inches; an excellent winter variety, being crisp and of fine flavor; in color it is pure white, and is becoming very popular	10	25	85	2 50
Germain **LONG WHITE ICICLE.** A very popular long white radish. Very sweet, crisp, and tender all through its growth and reaching a length of six inches	10	20	60	1 75
MIXED RADISHES. Supply a nice assortment for the table; of all colors and sizes	10	20	50	1 50
MODEL WHITE BOX. A very early round white radish, crisp and sweet	10	20	50	1 50
Germain **SCARLET TURNIP.** The little red turnip shaped radish every one asks for, crisp, tender and of fine flavor. Very quick growing. Tests at our Trial Fields show that our stock of seed of this variety is very fine	10	20	50	1 50
SCARLET GLOBE. Very early; a little longer than round; small top; color, brilliant deep scarlet	10	20	50	1 50
SCARLET, OLIVE-SHAPED. Oval; very early and handsome; flesh rose-colored, tender and brittle	10	20	50	1 50
Germain **SCARLET TURNIP WHITE-TIPPED.** Turnip shaped, attractive in color, being scarlet and white. It is very quick to mature, being ready for table in twenty days. Excellent flavor, a great favorite with market or home gardeners	10	20	50	1 50



ROSELLE

Note—Prices listed are postpaid.

The plants grow from 3 to 6 feet high and bear an abundance of handsome flowers, followed by fruit enclosed in a thick, fleshy calyx from which is made an excellent jelly resembling, but an improvement upon, that made by the black currant; 10 cents a packet, 75 cents per ounce; ¼ pound $2.50; 1 pound $7.50.

SALSIFY OR VEGETABLE OYSTER

Note—Prices listed are postpaid.

Salsifi Blanco **Haferwurzel** **Salsifis Blanc**

CULTURE—Sow in early spring, one inch deep, in drills one foot apart and thin young plants to three or four inches apart in the row. The soil should be deep and loose, and never allowed to get dry. General care same as for parsnips and carrots.

	Pkt	Oz.	¼ lb	1 lb
Germain **SANDWICH ISLAND SALSIFY.** An improved type and the largest and most delicious salsify in cultivation, with long white tapering roots. It is growing to favor rapidly with all who plant it, as it brings a large price in the market	10	30	90	2 75

HUBBARD SQUASH

SQUASHES

Note—Prices listed are postpaid.

Calabasa **Kuerbiss** **Courge**

CULTURE—Sow after danger of frost is past. Light, warm soil is best. Plant in hills prepared the same as for pumpkins and melons, the bush kinds about four feet apart, and the running varieties from six to nine feet apart, according to their nature, as some will run more than others. Plant about one-half dozen seeds in each hill and thin to three best plants. The earth about the plants should be kept loose and clear from weeds until runners are well started. Cutting off the leading shoots of the running varieties is recommended as having a tendency to promote growth and early maturity of the fruit. One ounce of seed will plant from thirty to fifty hills.

SUMMER VARIETIES

	Pkt	Oz.	¼ lb	1 lb
EARLY GOLDEN BUSH SCALLOPED. Similar in shape to the white	10	$ 20	$ 45	$1 25
Germain **EARLY WHITE BUSH SCALLOPED.** An early variety, well-flavored, productive; excellent for market	10	20	45	1 25
ITALIAN OR ZUCCHINI SQUASH is a bush variety and should be planted five feet apart. It should be used when quite young. When stewed it has a rich, creamy flavor not equalled by another squash. Some gardeners have made considerable money making a specialty of it. For the family garden we would recommend its use instead of the small white bush scallop, because of the excellent flavor and it is much more prolific. See Page 16	10	20	65	2 00
LONG WHITE VEGETABLE MARROW. An English variety of delicious flavor	10	20	40	1 25
SUMMER CROOK-NECK. This is the richest summer squash; very early and productive	10	20	50	1 50

WINTER VARIETIES

	Pkt	Oz.	¼ lb	1 lb
ESSEX HYBRID. An early and rapid growing variety, with thick, rich colored solid flesh, and one of the best keepers	10	20	40	1 25
FORDHOOK. One of the best of the late summer varieties, and will keep till the following May if stored in a cool dry place. Thick skin of a bright yellow color, heavy meat that can be used at any stage of growth	10	20	60	1 75
Germain **HUBBARD.** Best winter variety, vigorous, productive. Fruit large, weighty, moderately warted, hard shell; color dark bronze green. A fine grained, thick, dry, richly flavored, orange-yellow flesh. Baked, it is similar to and as luscious as a sweet potato. We have spent a great deal of time and attention in selecting our stock and confidently recommend it	10	20	50	1 50
Germain **PIKES PEAK or SIBLEY.** A new, old variety that deserves all the good things that are said about it. It is preferred to any other by those who know it. Similar to the Hubbard, but a great improvement on it	10	20	50	1 50
RED OR GOLDEN HUBBARD. Similar to the Green Hubbard, except in color, which is a bright, deep orange. Flesh deep, golden yellow, fine grained, cooks dry, and is of excellent flavor	10	20	65	2 00

SORREL

Note—Prices listed are postpaid.

Acedera **Sauerampfer** **Oseille**

CULTURE—Sow any time in deep, moist soil, even sour soils are preferable to what is considered good garden loam. Used same as spinach.

	Pkt	Oz.	¼lb	1 lb
Germain **LARGE-LEAVED FRENCH.** Used for salads, and highly recommended when cooked like spinach	10	25	85	2 50

SPINACH

Note—Prices listed are postpaid.

Espinaca **Spinat** **Epinard**

CULTURE—An all-year crop. Sow early in spring, in drills one foot apart, and thin the plants as you need them for cooking. For winter and spring use, sow in September. One ounce of seed will sow about seventy-five feet of row.

	Pkt	Oz.	¼ lb	1 lb
BLOOMSDALE, or SAVOY-LEAVED SPINACH. A favorite with market gardeners. It has thick, dark green wrinkled leaves and is very hardy. The earliest variety and one of the best for autumn use	10	20	25	75
Germain **LONG STANDING.** Leaves large, thick and crimped with a fleshy appearance. Hardy and adapted to either fall or spring sowing. Slow to seed, hence the name	10	20	25	75
NEW ZEALAND. Abundant producer throughout the summer; transplant three feet apart each way	10	20	75	2 25
Germain **PRICKLY OR FALL, BROADLEAF.** A splendid fall or winter sort, also does well planted in the spring. Quick growing with large dark green leaves	10	20	30	90
ROUND or SUMMER. A very hardy round, thick leaved variety adapted to early spring sowing. Matures quickly, very tender and fine flavored	10	20	25	75
VIROFLAY. A hardy variety, popular with both canner, shipper and consumer because of the large yield, large smooth leaves, tender quality and mild flavor	10	20	25	75

TOMATOES

☛ **Note**—Prices listed are postpaid.

Tomate **Liebesapfel** **Tomate**

CULTURE—Sow in hot bed or frame, about September 1, for winter crop in frostless belts, or in early spring for summer crop. Growth must never be checked or a shortened fruit crop will result. When the plants are two or three inches high, thin them out and set in pots or in another bed, to give them room and make them "stocky." When five or six inches high, if the weather be warm and settled, transplant them to open ground, selecting a rainy day if possible; in the absence of rain, water and protect till well rooted. Set plants four feet apart each way. One ounce of seed will produce 3000 plants. The tomato requires a rather light soil to ripen early, but if handsome fruit and a plentiful crop be desired, very rich soil should be selected and good cultivation given. **PLANTS, see page 128.**

GERMAIN'S FIRST EARLY TOMATO

The early tomato is the one that gets the big money, but earliness alone does not do it. Quality, including size, smoothness, firmness, flavor and coloring, are all considered; and tomatoes of this type find a ready market even when prices are highest.

Germain's First Early Tomato embodies all these requirements and has found a warm spot in the energetic and prosperous growers' heart.

For home gardening it is equally as valuable, for it requires no more care than other varieties and comes into maturity earlier.

While not materially earlier than our strains of Earliana and Winter Queen, it has the distinct advantage of being much smoother. In fact, it is entirely smooth.

Running strong to foliage, it affords the fruit more protection than any other variety. Hence it is as hardy a tomato as can be found.

Packet, 10 cents; ounce, 50 cents; ¼ pound, $1.75; pound, $5.00.

	Pkt	Oz.	¼ lb	1 lb
ATLANTIC PRIZE (Early Ruby). A favorite early variety. color glossy crimson with a purplish tinge	10	40	1 35	4 00
Germain **BEEFSTEAK.** This variety has been exceedingly popular with our customers and our sales have been enormous. It is one of the best, if not the best tomato grown. It is very prolific and its growth is a marvel. For the home garden it cannot be surpassed. Of a bright red color, with very firm, substantial meat and luscious flavor. We take pleasure in again presenting this favorite to our customers	10	55	1 85	5 50
BONNY BEST. An extra early, scarlet, round fruited variety of great value. The fruit is very even in size and shape	10	40	1 35	4 00
Germain **CHALK'S EARLY JEWEL.** Nearly as early as Earliana. Fruits are large and of fine flavor	10	40	1 35	4 00
DWARF CHAMPION. An early and distinct variety, medium in size; plant of dwarf and compact growth	10	40	1 35	4 00
DWARF STONE. The vines are dwarf, vigorous and productive. A rather late maturing variety, the fruit being of a bright red color, very smooth and solid. A good variety for the home garden	10	40	1 35	4 00
Germain **GERMAIN'S WINTER QUEEN.** See page 17.	10	50	1 65	5 00
GRAPE OR RED CURRANT. A small red tomato about the size of a small grape. Useful for ornamental vine, for preserving, and for table decoration	10	40	1 35	4 00
LIVINGSTON'S FAVORITE. Beautiful shape, smooth and a good bearer; ripens evenly	10	40	1 35	4 00
Germain **GERMAIN'S NEW STONE.** See specialty page 17.	10	40	1 35	4 00
PONDEROSA. Grows to enormous size, sometimes weighing from two to three pounds each; very smooth and solid.	10	55	1 85	5 50
SAN JOSE CANNER. A fine tomato used for canning purposes in the North, and we recommend it also for the same purpose locally. It is also a good Market Garden tomato to be planted for the main crop. It should be planted at the same time as the Stone variety	10	50	1 65	5 00
Germain **SPARK'S EARLIANA.** Early and prolific; very solid and noted as a good shipper	10	40	1 35	4 00
STRAWBERRY OR GROUND CHERRY. A distinct species; grows enclosed in a husk; excellent for preserves	10	40	1 35	4 00
YELLOW PEACH. Beautiful clear yellow color, for eating and preserving	10	40	1 35	4 00
YELLOW PLUM. Fruit plum-shaped, of clear, deep yellow color. Flesh yellow, used for preserving	10	40	1 35	4 00
YELLOW PEAR. A small early variety good for preserves	10	40	1 35	4 00

TURNIPS

☛ **Note**—Prices listed are postpaid.

Nabo **Ruebe** **Navet**

CULTURE—Sow during cool weather, from October to April. For early crops, sow the Early White Flat Dutch or Early Purple Top Milan during early winter; and for summer crops sow any of the other varieties at intervals of two weeks, in drills twelve inches apart; cover the seed lightly unless the season be very dry; thin out the plants to six or eight inches apart. For Fall or Winter use, sow the Golden Ball or Purple Top Strap Leaf. Success depends upon the selection of soil and its subsequent preparation. Stir deeply.

SNOWBALL TURNIP

Germain **RECOMMENDS**

EXTRA EARLY PURPLETOP MILAN TURNIP

This choice variety is not only a beautiful and unusually delicious vegetable, but pleases the grower by maturing a week earlier than the earliest of other sorts. It is of medium size, flat and thick, with a smooth, bright purple top, snow white flesh, and little given to leaves. It accommodates itself to either spring or fall maturity, and is a delight to those who appreciate the food value and fine flavor of a good turnip. A heavy cropper, it deserves the greatest favor from the market gardener, and is surely a top notcher for the home garden. Pkt. 10 cents; ounce, 25 cents; one-fourth pound, 85 cents; one pound, $2.00.

	Pkt	Oz.	¼ lb	1 lb
COW HORN. This variety is pure white; in shape like a carrot, growing nearly half out of the ground, and slightly crooked. It is delicate and well flavored. Used also as a green manuring crop	10	$ 20	$ 40	$1 25
EARLY PURPLE-TOP MILAN. See Specialty above				
EARLY WHITE EGG. An egg-shaped variety for spring and fall sowing; flesh firm, fine-grained, mild and sweet	10	20	40	1 25
Germain **EARLY WHITE FLAT DUTCH.** White flesh, medium size, quick growth	10	20	40	1 25
Germain **RED TOP WHITE GLOBE.** One of the handsomest and most salable turnips. Equally good for home or market. It is a large, rapid growing sort, flesh pure white and the best flavor of any turnip grown. The skin is white with red top. We have taken great care with this stock, and offer it with confidence that our friends will be fully satisfied	10	20	35	1 00
GOLDEN BALL. Round, smooth English turnip of fine quality; yellow; good keeper	10	20	40	1 25
PURPLE-TOP STRAP-LEAF. Very productive, matures quickly; flesh white and sweet	10	20	40	1 25
Germain **EARLY SNOWBALL.** Some people may think that a turnip is a turnip, not realizing the great difference between the average stringy, pulpy vegetable and the sweet, mellow, crisp possibilities that have been achieved in the perfection of the Snowball. It was first introduced into this section by us several years ago, and our supply of seed this season is so unusually fine that we are strongly recommending it. Germain's Snowball will respond to any reasonable desire for early maturity; grows even in size and is most completely described by its name—pure white and round as a ball	10	20	40	1 25
WHITE GLOBE POMERANIAN. A large round turnip, very sweet flesh, similar to Red Top White Globe, but pure white in color	10	20	40	1 25

RUTABAGAS

RUTABAGA OR SWEDISH TURNIP

What others do, you can do. Plant lots of Rutabagas for your stock and cut down your feed bill.

CULTURE—Same as for common turnip, but if anything, less exacting in care.

Germain **IMPROVED YELLOW PURPLE-TOP.** The old, popular standard sort both for stock feeding and table use; flesh yellow, solid and sweet. Pkt. 10 cents, ounce 20 cents, ¼ pound 45 cents, 1 pound $1.25.

IMPROVE INCREASE YOUR SOIL CROPS

USE

GERMOSOIL

GERMOSOIL is made in the largest and best equipped bacteriological laboratories on the Pacific Coast.

GERMOSOIL is a special form of a pure culture of living, virile bacteria, acclimated and obtained from local plants and of the particular strain adapted to the plant to be grown. It is developed to the highest possible degree of purity and efficiency *by skilled bacteriologists of many years' experience*, in the *largest and finest bacteriological laboratories on the Pacific Coast.* Its use, according to directions, is practically positive assurance of increased crop production and soil improvement.

Every operation in the production of **GERMOSOIL** is performed with care, accuracy, and precision, and we stand back of our CERTIFIED product. *Our reputation is your guarantee.*

Every modern scientific apparatus or innovation for the improvement of our service has been adopted and nothing is left undone to insure the efficiency of **GERMOSOIL.**

Whether you are growing legumes for hay, forage, seed, or green manure, *inoculation is precaution against failure*, and *an assurance of success.*

Full directions for the use of **GERMOSOIL** *accompany every package.* **GERMOSOIL** *is the simplest and quickest inoculant to use.*

GERMOSOIL Specific Cultures are made for

Alfalfa	Lupin	Alsike
Burr Clover	Soy Beans	Red Clover
Field Peas	Melilotus Alba	Velvet Beans
Field Beans	Melilotus Indica	Cow Peas
Vetch	Horse Beans	Lentils
Fenugreck	Canadian Field Peas	Peanuts

And all other Legumes

Price: One, five and ten acre units . . . . $2.00 per acre

GERMOSOIL is the only Certified Inoculant

☞ Germosoil will produce [43] marvelous results on alfalfa

FIELD SEED DEPARTMENT

QUALITY

is one of the important things in this department. It has been our pleasure to see California come forward as the state that grows various varieties of Field crops. When the Germain Seed & Plant Company was first organized, wheat and barley were the main field crops. Today we can point with pride to the development that has taken place, which has brought forward the use of various varieties of Field Seeds, and we now look forward to the time when California will become one of the big corn producing states of the Union. The southwest has not as yet reached the peak of its development, and we, who are now in the seed business, will not see this peak reached; however, it is up to us to encourage, and to further every effort towards making California a self sustaining state, when it comes to various crops that we list in this section of our Seed Manual.

EQUIPPING

our new plant with every modern device known in the seed trade is one of the things that we have done in order to be in a position to furnish to growers, and those who are desirous of growing various varieties of Field Seeds, the very best quality of seed in order to produce the best results. It would be a pleasure to have any of our friends call on us to see the efforts we have put forth, and are putting forth in order to accomplish this, and we extend to you an invitation to call on us so we can demonstrate this to you. Hundreds have visited our new plant and we look forward to showing others what we have.

INFORMATION

can be obtained on any subject that is of interest to our customers by merely writing us a line; we will gladly furnish you with this information free of charge. Avail yourselves of this opportunity, for with proper information at hand you can increase your yields and probably plant various varieties of seed that will do better in your locality than some that you have in mind. We also have a complete library and will be glad to have anyone call in and make use of same. If we have not the information at hand, we are in a position to advise our customers of the various bulletins issued by the United States Department of Agriculture, also the University of California. The Los Angeles City Library also has a very complete set of books on various subjects in connection with this department, so don't fail to call upon us for any help you may need.

Big Jim Corn is Described On Pages 46 and 47

SILOS, SILAGE AND ENSILAGE CORN

EUREKA ENSILAGE

Eureka Ensilage corn is without a doubt the heaviest yielding Ensilage corn adapted to California climatic conditions. It grows to an average height of 14 feet, has very leafy stocks bearing one to three ears to the stock, and has established a record of an average production of 30 to 35 tons per acre. This when cut and put in the silo furnishes a feed that is very succulent and of the highest feeding value and is relished by all kinds of stock.

Our seed stock of Eureka-Ensilage corn for this season is of exceptionally fine quality and selected for size uniformity for both ear and kernel.

Price per pound, 25 cents, 10 pounds $2.00, postpaid. Write for quantity prices.

ORANGE COUNTY PROLIFIC

Orange County Prolific is a California product of the white dent variety. It is also an exceptionally heavy yielder and highly recommended for ensilage purposes. We consider it next on the list following Eureka Ensilage corn.

What we have said regarding the selection of our seed stock for Eureka Corn also applies to this variety.

Price per pound, 25 cents, 10 pounds $2.00, postpaid. Write for quantity prices.

GROWING CORN FOR THE SILO

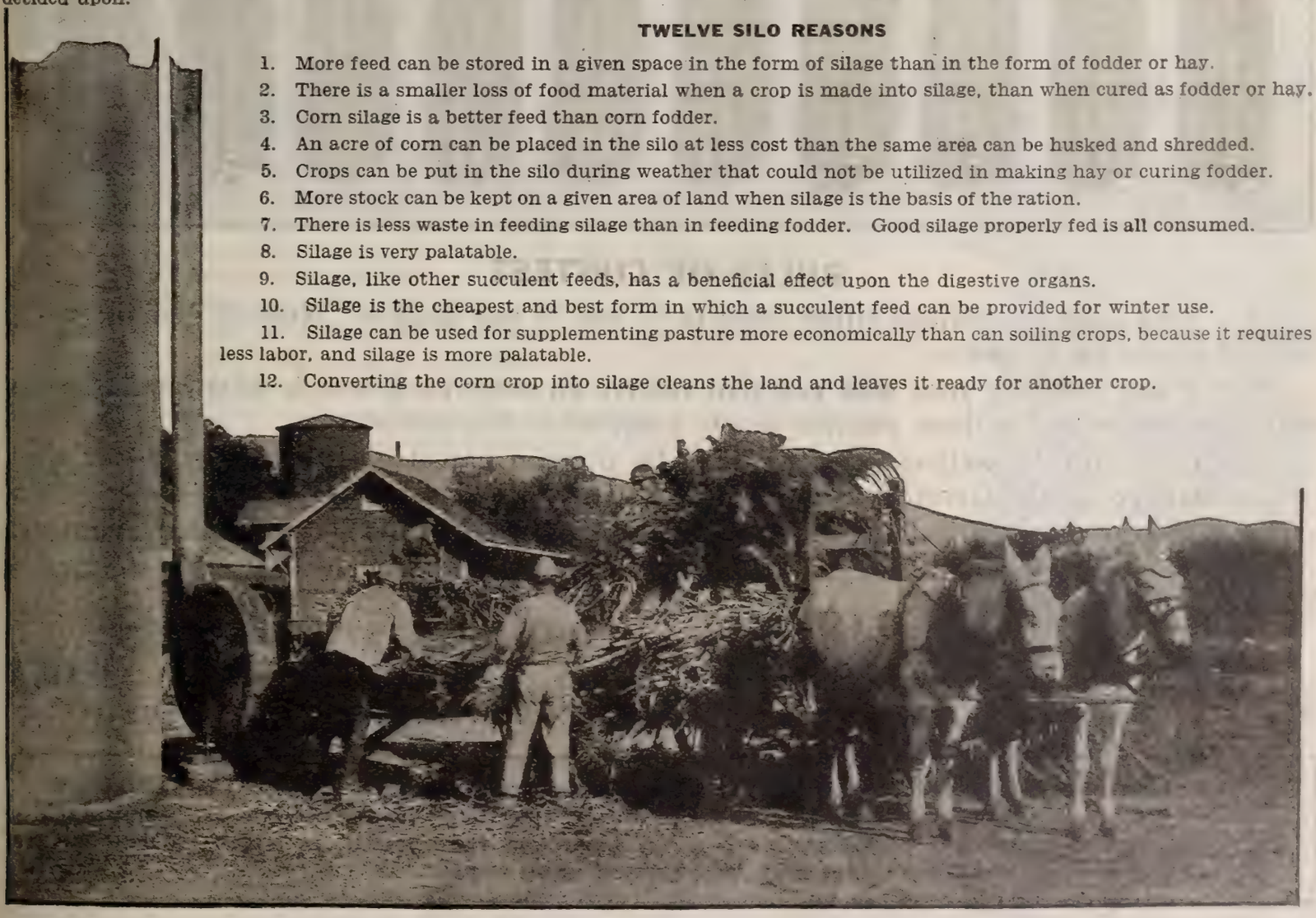
CULTURE. Generally speaking the seed should be sown in drills 3½ feet apart using 15 to 30 pounds of seed per acre, the amount planted depending upon the purpose for which the silage is to be used.

Whenever less grain and more bulk is desired, more seed may be planted to the acre, giving a greater amount of leaf and stalk but less ear corn. For fattening beef cattle the opposite is true; the more ears produced the greater the fattening properties, and for that reason less seed should be sown per acre, giving it a better opportunity to mature. In either case the tonnage per acre will be the same. In the one case there will be more leaf and stalk and less ears and in the other instance the opposite, less stalk and leaf but more grain.

Also, by the use of these varieties, if the grower wishes, it may be cut at an early stage of its growth and used as fodder. Later it may be put in the silo in any desired stage and if the season promises to be long enough it may be allowed to ripen for corn if this be decided upon.

TWELVE SILO REASONS

1. More feed can be stored in a given space in the form of silage than in the form of fodder or hay.
2. There is a smaller loss of food material when a crop is made into silage, than when cured as fodder or hay.
3. Corn silage is a better feed than corn fodder.
4. An acre of corn can be placed in the silo at less cost than the same area can be husked and shredded.
5. Crops can be put in the silo during weather that could not be utilized in making hay or curing fodder.
6. More stock can be kept on a given area of land when silage is the basis of the ration.
7. There is less waste in feeding silage than in feeding fodder. Good silage properly fed is all consumed.
8. Silage is very palatable.
9. Silage, like other succulent feeds, has a beneficial effect upon the digestive organs.
10. Silage is the cheapest and best form in which a succulent feed can be provided for winter use.
11. Silage can be used for supplementing pasture more economically than can soiling crops, because it requires less labor, and silage is more palatable.
12. Converting the corn crop into silage cleans the land and leaves it ready for another crop.

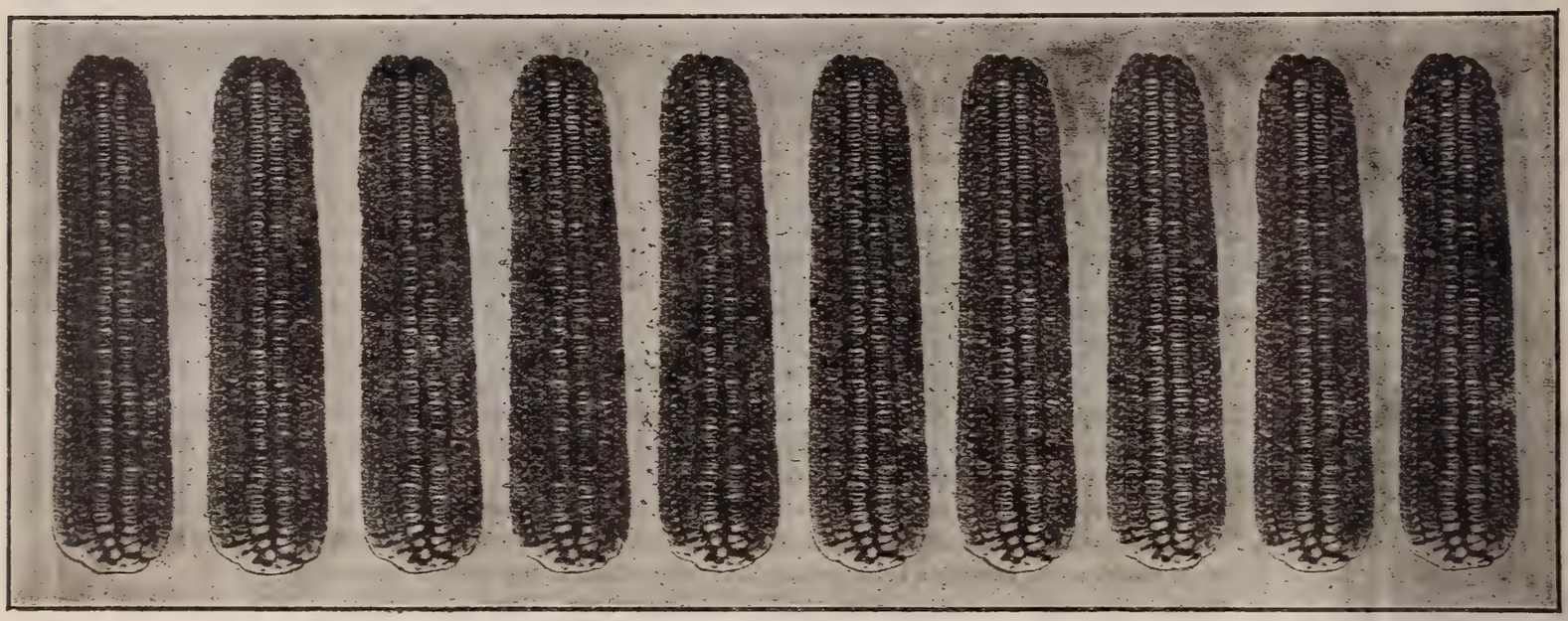


$200.00 IN CASH!

To be Given to Winners in Germain's 1921 BIG JIM CORN CONTEST

1st Prize	$100.00	4th Prize	10.00
2nd Prize	50.00	5th Prize	5.00
3rd Prize	25.00	6th Prize	5.00
7th Prize	5.00		

This contest is for the ten most perfect ears of Germain's Big Jim Corn. In judging the ten most perfect ears the following points will be considered: Size, symmetry, uniformity, trueness to type, soundness and maturity. The judging will be done by a purely disinterested person, probably the best authority on corn in the state.



RULES OF CONTEST

1. Seed must be obtained either from us or one of our dealers. None is genuine without red certificate of quality.
2. When ordering your seed you will receive an entry card, which when mailed to us with your name and address entitles you to compete in this contest.
3. Corn must be well matured and sent by prepaid parcel post or express to the corn contest manager of the Germain Seed Company before November 1, 1921
4. All corn entered in this contest becomes the property of the Germain Seed Company.
5. This corn will be judged immediately after November 1, 1921, and the prizes awarded to the winners.
6. Anyone in the employ of the Germain Seed Company is NOT eligible.
7. The winning entry will be exhibited at our retail store, corner Sixth and Main Streets, and later placed on permanent exhibition in the L. A. Chamber of Commerce.

NOTICE.—Owing to the fact that this catalog was printed before the close of our 1920 Corn Contest we are unable to announce the winner of the Loving Cup. However, we are publishing a pamphlet containing cuts of Germain's Big Jim Corn and testimonials, in which we will announce the winner. This pamphlet may be obtained upon request.

Read about the Watermelon Contest on Page Five

BIG JIM CORN

The following is an extract from our 1920 Catalog:

"Big Jim Corn is without a doubt the largest, heaviest yielding, richest, yellow dent corn ever introduced. To show our confidence in this statement we offer $100.00 to the first person offering us a variety superior. Big Jim Corn will put California on the map as a leading corn producing State."

This statement still holds good. In spite of the fact that last year was the poorest corn season experienced in California in years, Germain's Big Jim Corn has fulfilled our highest expectations. It has proven to be the greatest corn ever introduced in the Southwest. It has met with unanimous approval as is evidenced by the hundreds of testimonials that we are receiving—testimonials from men who have grown corn for years in the corn belt states. They say they have never seen anything to equal it. It has outyielded every other variety grown, some of the yields running as high as 100 bushels per acre. The ears of Big Jim Corn, usually borne two on each stalk, average from 10 to 14 inches in length and 8 inches in circumference. The kernels are a rich yellow and very large. The cob is proportionately small. The stalks attain an enormous height, bearing an abundance of large leaves.

For Ensilage

Heretofore we have refrained from listing Germain's Big Jim as an ensilage corn. However, during its one year's trial before the farmers of this state, it has produced such an enormous growth of stalks and leaves that we are convinced that it is unsurpassed as an ensilage corn. It is not uncommon for Big Jim to produce from 35 to 40 tons of green corn per acre when sown thickly enough. Furthermore, the feeding value of this silage is greatly increased by the heavy yield of grain. Big Jim Corn for silage will insure the grower the greatest possible returns per acre.

Seed Selection

As far as we know we are the only seed house in the Southwest selecting our seed corn from California-grown stock. Seeing the need for better seed corn, we inaugurated our own Corn Breeding Department. Our work in this department consists in the careful selection and breeding of the best varieties of corn for this State. Special attention has been given to the improving of our Big Jim Corn. Only the best seed stock of this variety is planted, seed that came from perfect ears and high producing fields. The fields are given the most careful attention, they are regularly inspected by our corn experts, and the work carried out under their direction. The corn is carefully suckered, and any smutty stocks are quickly eliminated. The perfect ears, selected for seed, are dried on the cob, after which they are butted and tipped and shelled. The shelled corn is then carefully hand picked and put up in sacks for delivery. Every sack of Germain's Big Jim Corn, whether purchased direct from us or through one of our dealers, will have a red certificate of quality attached. None is genuine without this tag. While this work is somewhat expensive, adding slightly to the cost of the seed, the increased yield resulting more than offsets the increased cost.

Seed Supply and Demand

In 1920 there were approximately 1,500 acres of Big Jim Corn planted. This year the acreage will be increased many times over. Last season our stock of seed was exhausted by the middle of April. Due to the increased demand and owing to the fact that there will be hundreds of acres grown for ensilage purposes this season, we anticipate an even greater shortage of seed. We, therefore, earnestly advise you to place your order for Big Jim Corn at once.

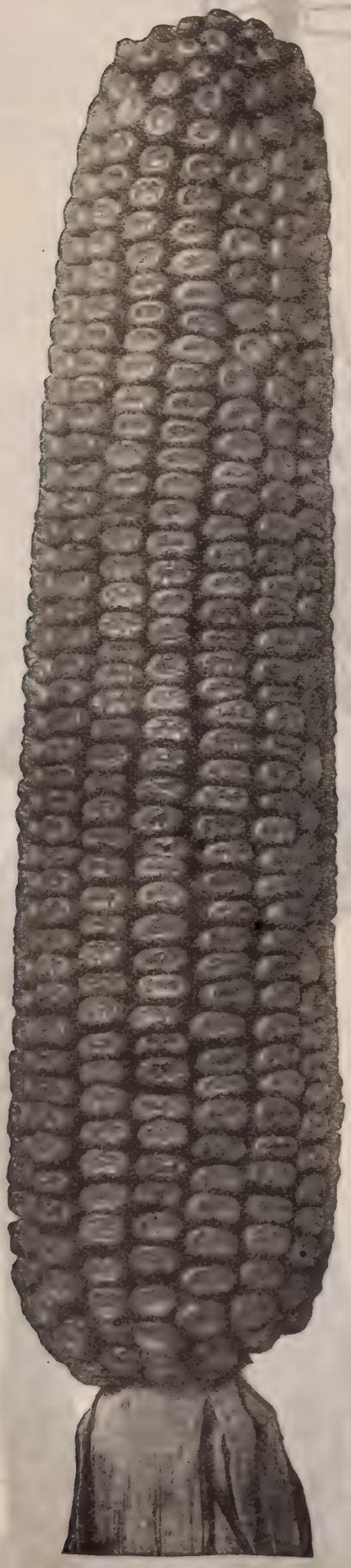
1 lb., postpaid . . . . . $ .35 10 lbs., postage extra $1.75
5 lbs., postage extra . . . . . 1.00 25 lbs., postage extra 4.00
50 lbs. or over, f. o. b. Los Angeles, per lb. . . . $ .15

Read about the Watermelon [41] Contest on Page Five

CORN

WRITE US FOR QUANTITY PRICES ON FIELD SEEDS. ALL PRICES MENTIONED ON THIS PAGE ARE POSTPAID

Note—Prices on half pound and pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on Page 1. **If quantities are desired, do not fail to write for samples and special prices, as all field seeds are subject to market fluctuations.**



IMPROVED LEAMING CORN

FIELD CORN

OTHERS SUCCEED, SO CAN YOU.

Corn is more extensively grown in the United States than any other grain, the acreage being about double and the product four times greater than wheat.

California ships in more corn than it produces, thousands of cars are shipped in to us from the middle west every year. Why send your money East for this product when it can be grown so successfully here?

CULTURE. Good crops can be obtained on a variety of soils varying from the lighter sandy loams to heavy clay. When a choice can be had a warm, porous, well drained loam should be chosen.

Thin soil should be plowed shallow. On good soils depth of plowing seems to have little influence on the crop, plowing 5 to 7 inches deep is usual and is recommended.

Sub-soiling for corn is not a profitable practice. Corn should be cultivated about once every week or ten days, especially after every rain or irrigation. Begin soon after the seed is sown and continue to cultivate until the stalks are nearly as high as a man's head. The essential thing in corn cultivation is to keep the ground free from weeds and covered with a soil mulch. Remember that shallow cultivation should be practiced.

The time of planting corn, with us, should be immediately after danger of frost is over and the earlier thereafter the better.

From 2 to 3 inches is considered the best depth to plant corn. It should be planted in rows 3 to 4 feet apart with the seed from 9 to 16 inches apart in the rows depending on the variety.

Do not fail to read pages forty-six and forty-seven describing Big Jim Corn, the wonderful new Yellow Dent variety. Also see page forty-five for full description of the ENSILAGE CORNS.

CORN—FIELD

CHAMPION WHITE PEARL. This stalk is short and thick. The ear grows low on the stalk, from seven to twelve inches in length, almost parallel throughout, of medium size, averaging sixteen rows of grain. 1 pound 25 cents, 10 pounds $2.00.

EARLY MASTODON. The largest yellow corn grown with the exception of Big Jim Corn. It has been known to yield over 200 bushels to the acre. The ears are even in size, cob small, with deep yellow grains. A vigorous grower and sure to give satisfaction; 1 pound 25 cents, 10 pounds $2.00.

HICKORY KING, White. This corn is entirely distinct from all other varieties, having the largest grain with the smallest cob ever introduced in a white corn; 1 pound 25 cents, 10 pounds $2.00.

IMPROVED LEAMING CORN, Yellow. 1 pound 25 cents, 10 pounds $2.00.

IOWA GOLD MINE, Yellow. 1 pound 25 cents; 10 pounds $2.00.

IOWA SILVER MINE, White. 1 pound 25 cents, 10 pounds $2.00.

KING OF THE EARLIES. This is one of the very earliest of the Yellow Dent varieties. It is a good yielder but not to be compared with Big Jim Corn. 1 pound 25 cents; 10 pounds $2.00.

KING PHILIP, Yellow. This is a hard yellow flint corn and is generally referred to as ninety-day corn. It is drought resisting and will give a fair yield where most corns are a failure. 1 pound 25 cents, 10 pounds $2.00.

MEXICAN JUNE CORN, White. Very early and hardy, stalks grow to an average height of 7 or 8 feet and produces 30 to 60 bushels of corn per acre. 1 pound 25 cents, 10 pounds $2.00.

WISCONSIN WHITE DENT; 1 pound 25 cents, 10 pounds $2.00.

CORN—ENSILAGE

ALSO SEE PAGE 45

EUREKA ENSILAGE CORN. Ideal for silage purposes. Grows an average height of 14 feet, each stalk bearing one to thre ears. Yields as high as 31 tons of fodder per acre. Plant 18 pounds seed per acre for ensilage. 1 pound 25 cents, 10 pounds $2.00.

ORANGE COUNTY PROLIFIC. A pure white corn. Sweet, tender, juicy, has short joints and produces abundant foliage. Every dairy farmer should grow this sort; produces large crops; Packet 7½ cents, 1 pound 25 cents, 10 pounds $2.00.

SWEET CORN—See pages 9 and 25.

CORN—POP

CULTURE—Required same care and culture as a sweet corn.

QUEEN'S GOLDEN. A large-eared and handsome yellow popcorn; grains are large, pop perfectly white and are exceedingly tender. About six feet high, and yield three or four ears to the stalk; 1 pound 30 cents, 10 pounds $2.50.

Germain **WHITE RICE.** A popular and productive variety. The kernels are fine, white, and the ears are from four to five inches in length and from one to one and a quarter in diameter; 1 pound 30 cents, 10 pounds $2.50.

Catalogue price subject to change without notice.

SORGHUMS, SACCHARINES AND NON-SACCHARINES

WRITE US FOR QUANTITY PRICES AND SAMPLES OF FIELD SEEDS

OUR FIELD OF EGYPTIAN CORN. NOTE THE HEAVY GROWTH

SORGHUMS TAKES THE PLACE OF SUGAR

Syrup and molasses are in strong demand. In fact the situation may call attention to the advantage of growing more sweets in the form of sorghum molasses. Within the past three or four years this awakened interest has resulted in the establishment of several mills. One of these operating at Pomona is greatly enlarged and improved this year. A limited amount of syrup was made in 1918, and this year a new mill was brought from the East and crushing is proceeding as rapidly as possible. An acre will produce anywhere up to 300 gallons according to the care given and other factors; a fair average perhaps is around 150 gallons.

EARLY AMBER. Furnishes a large yield of most nutritive forage, which can be fed either green or cured and will yield two or three cuttings a year, stooling out thicker each time it is cut. It grows ten to twelve feet high. Sow broadcast for forage at the rate of 60 pounds per acre. When sown in drills, sow at the rate of 10 pounds per acre in drills three and a half to four feet apart. Per pound 20 cents, 10 pounds $1.75, postpaid.

HONEY SORGHUM is the prize variety without a doubt. We have seen it growing in Imperial Valley, San Diego County, San Joaquin Valley, and in the vicinity of Los Angeles. All growers every year are loud in its praise.

HONEY SORGHUM is a selection from one of the earliest introductions, and has been regarded with special favor for ensilage and for syrup purposes. It is the best variety for silage purposes, slender leafy stalks, varying in height from eight to twelve feet. It is medium, late maturing and has decidedly tender stalks, and is important from a forage standpoint.

Imagine an average of twenty-seven tons or over per acre.

The method of seeding will be determined largely by the purpose for which they are grown. When the crop is to be used for fodder or silage, it is usually planted in rows 3 to 3 feet apart, using up to 4 pounds of seed per acre.

Price per lb. 20c, 10-lb. lots $1.75, postpaid. Write for special prices in larger quantities.

ORANGE SORGHUM. In habit of growth it is very similar to Early Amber Sorghum, but does not stool quite so closely nor does it grow quite so thickly. Per pound 20 cents, 10 lbs. $1.25, postpaid.

SILVER TIP. Some manufacturers of Sorghum syrup prefer this variety to others for this purpose. On account of the fact that it is later in maturing than other varieties it is only possible to use the first cutting for syrup. However, succeeding cuttings can be used for pasturage or ensilage. Per lb. 20c, 10 lbs. $1.75, postpaid.

DWARF MILO MAIZE. See page 50.

TALL MILO MAIZE. The grain is used very extensively as a chicken feed and the stalks for ensilage but is a good deal later than the Dwarf Milo Maize and does not produce as much grain per acre. Per pound 20 cents, 10 pounds $1.75, postpaid.

EGYPTIAN CORN. This is also one of the drought resisting non-saccharine crops. The grain is produced in large compact heads and the seed is flat and pure white. The picture at the top of this page is that of 100 acres of Egyptian Corn from which our seed was selected this season. This seed is used very extensively as a chicken feed and also ground into flour which is used for edible purposes. Per pound 20 cents, 10 pounds $1.75, postpaid.

FETERITA. This sorghum was recently secured from Sudan, where it is commonly grown under the name Feterita, an early maturing plant valued both for grain and forage. It resembles Milo in habit, except that the heads are uniformly erect, seeds bluish white in color. In drouth resistance it compares favorably with any sorghum yet introduced. Sow 8 pounds to the acre. Pound 20 cents, 10 pounds $1.75, postpaid.

SHALLU OR EGYPTIAN WHEAT. Is one of the most drought resisting grain crops known. Especially suited to dry land farming operations and localities where the normal rainfall is limited. Under irrigated conditions it grows to best advantage. The grain is claimed to possess all the feeding values of wheat, and is especially valuable as a feed for hogs, chickens and cattle. Pound 25 cents, 10 pounds $2.00, postpaid.

KAFFIR, WHITE. Unsurpassed for dry alkali land, on which no better fodder and grain crop grows. A prolific member of the sorghum family, having more foliage and smaller stalks than the other varieties, and harvested very easily. Its great root system enables it to produce wonderfully in drouth sections and breaks up new ground for other crops. Cattle relish the stalks, while the grain is a very valuable food for poultry. Pound 25 cents, 10 pounds $2.00, postpaid.

BROWN DURRA. More commonly known as Jerusalem Corn. It has very dry almost leafless stalks with large, chaffy pendant heads and decidedly flattened seeds. This crop is not very extensively grown in California. Per pound 20 cents, 10 pounds $1.75, postpaid.

HAGARI. This is one of the most recent introductions. Some experiments have been made on this crop in Arizona and it is claimed that it is a little sweeter than Kaffir Corn or Feterita. The seed is round and white and does not shatter very readily. The heads grow very erect. It is drought resisting and stands some alkali. Per pound 25 cents, 10 pounds $2.00, postpaid

SUDAN GRASS. See page 51.

GERMAIN'S FANCY DWARF MILO MAIZE

HAND SELECTED

The greatest improvement in Milo Maize in years. Germain's select strain of Fancy Dwarf Milo. An entirely different type, never attaining a height of more than three ft., the stalks being one mass of leaves overlapping each other, and outyielding the ordinary Dwarf Milo 2 to 1.

This wondeful strain of Dwarf Milo originated in the Salt River Valley of Arizona. It has been grown in the Imperial Valley for the past two seasons, where it has outyielded every other grain sorghum. It is also drought resisting to the last degree. According to statistics the average yield of Dwarf Milo Maize in the Imperial Valley is one-half ton per acre. Germain's Fancy Dwarf Milo last season gave an average yield of from 1¾ to 2 tons of grain per acre. The stalks never grow more than 3 ft. high. The plant is one mass of leaves which overlap one another. In fact, the stalk can scarcely be seen at all. This is an important point, for after the grain is harvested cattle will eat every bit of the plant down to the roots. This strain of Milo is very easy to harvest, the heads standing at a uniform height from the ground.

Our seed of this Fancy strain of Dwarf Milo was grown on the ranch of Mr. C. C. Deane of Brawley, California, Imperial Valley. Mr. Deane is one of the most successful farmers in the country, having at one time taken a State prize for the production of oats. The field from which our seed was selected from this season was hand thinned, only the largest heads being allowed to remain on each stalk. This insures only the very choicest seed.

Fancy Dwarf Milo can be grown successfully either under irrigation or under the dry farming method. When the dry farming method is followed it can be grown with as little as 6 inches of rainfall, providing the same is properly conserved during the winter months. It is generally planted in rows 3 ft. apart and the stalks thinned to stand 6 to 12 inches apart in the row, depending on whether irrigated or dry farmed, and also upon the nature of the soil.

Owing to the prevailing low price of cotton this season there probably will be thousands of acres, which instead of being planted to this commodity will be put to Milo Maize and grain of all kinds. This situation will undoubtedly make a heavy demand for Dwarf Milo that will yield the greatest returns per acre. We, therefore, advise you to secure your supply of our select strain of Fancy Dwarf Milo while the supply lasts.

$600.00 IN PRIZES
See Page 5

Price:	**1 lb**	**$ .25**	**postpaid**
	10 lb	**1.75**	**"**
	25 lb	**2.85**	**"**
	50 lb	**4.25**	**Express or postage extra.**
	100 lb	**8.00**	**per cwt. Express or postage extra.**

$200.00 IN PRIZES
See Page 46

SUDAN GRASS—THE WONDER CROP

WRITE FOR QUANTITY PRICES

The farmer who has never grown Sudan Grass can hardly appreciate the merits of this wonderful crop. It is being heralded from the western to the eastern, and from the northern to the southern boundaries of the United States as the most drought resisting annual ever introduced.

Sudan Grass has long passed the experimental state. It has come to stay. It is of special value in the arid and semi-arid sections of California. It grows in a wide range of soils from sand to clay and produces from four to six cuttings of highly nutritious hay where other crops would be a failure, and as a pasture crop it is unequaled.

It was Sudan Grass which came to the rescue of the dairymen of California last spring after a dry winter, and prevented a hay famine.

Write for special pamphlet on Sudan Grass.

Price, ¼ pound 15 cents, one pound 40 cents, 10 pounds $3.50, postpaid. Write for price in larger quantities.

RHODES GRASS

RHODES GRASS

Rhodes Grass is a perennial, and a native of South Africa, where it has proved itself a most wonderful grass for all kinds of stock.

Since its introduction into the United States it has been very successfully grown throughout the southern states and from experiments which have been conducted in the Imperail Valley and other parts of California, we believe it will in the course of a few years be one of the leading perennial pasture and hay grasses in this state.

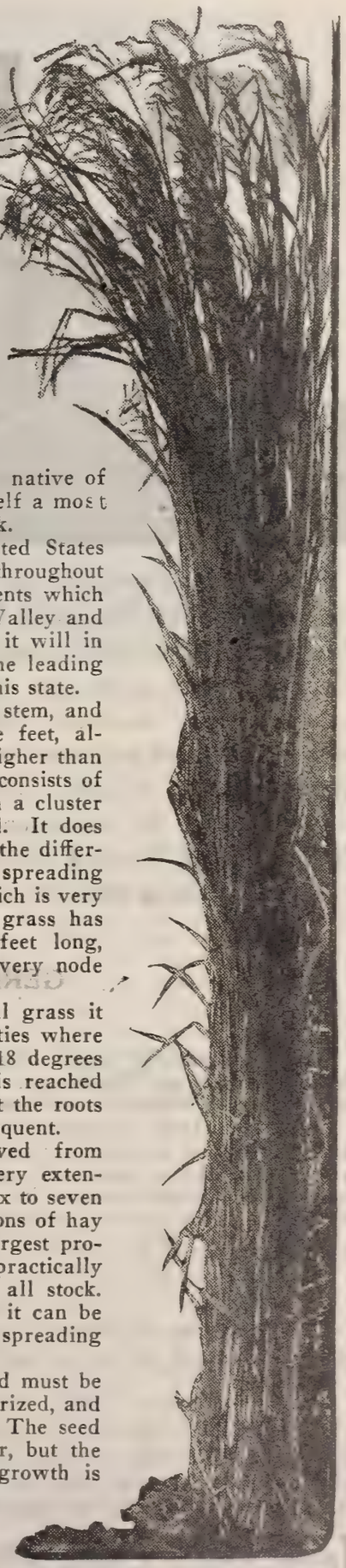
Rhodes Grass has a very fine leafy stem, and grows to an average height of three feet, although in many cases it grows much higher than that, and has a flowering head which consists of ten or fifteen long spreading spikes in a cluster which produces an abundance of seed. It does not become a pest like Johnson Grass, the difference being that Johnson Grass has a spreading root beneath the surface of the soil which is very hard to eradicate, while the Rhodes grass has long, running branches two to six feet long, which root and produce a plant at every node above the surface of the ground.

While Rhodes Grass is a perennial grass it will only continue producing in localities where the temperature does not drop below 18 degrees Fahrenheit. When this temperature is reached the tender grass will be killed, but not the roots unless the cold spells are sufficiently frequent.

Reports which have been received from Florida, where it has been grown very extensively, indicate that it produces from six to seven cuttings per season and one to three tons of hay per cutting. Rhodes Grass has the largest protein content of any grass known, practically equaling legumes, and is relished by all stock. It is also very drought resisting, and it can be killed out easily by ploughing and spreading the roots in the sun.

In seeding Rhodes Grass the ground must be well prepared and the soil finely pulverized, and as moist as possible at sowing time. The seed can be sown almost any time of year, but the best time to seed to obtain a good growth is early in the spring from February on.

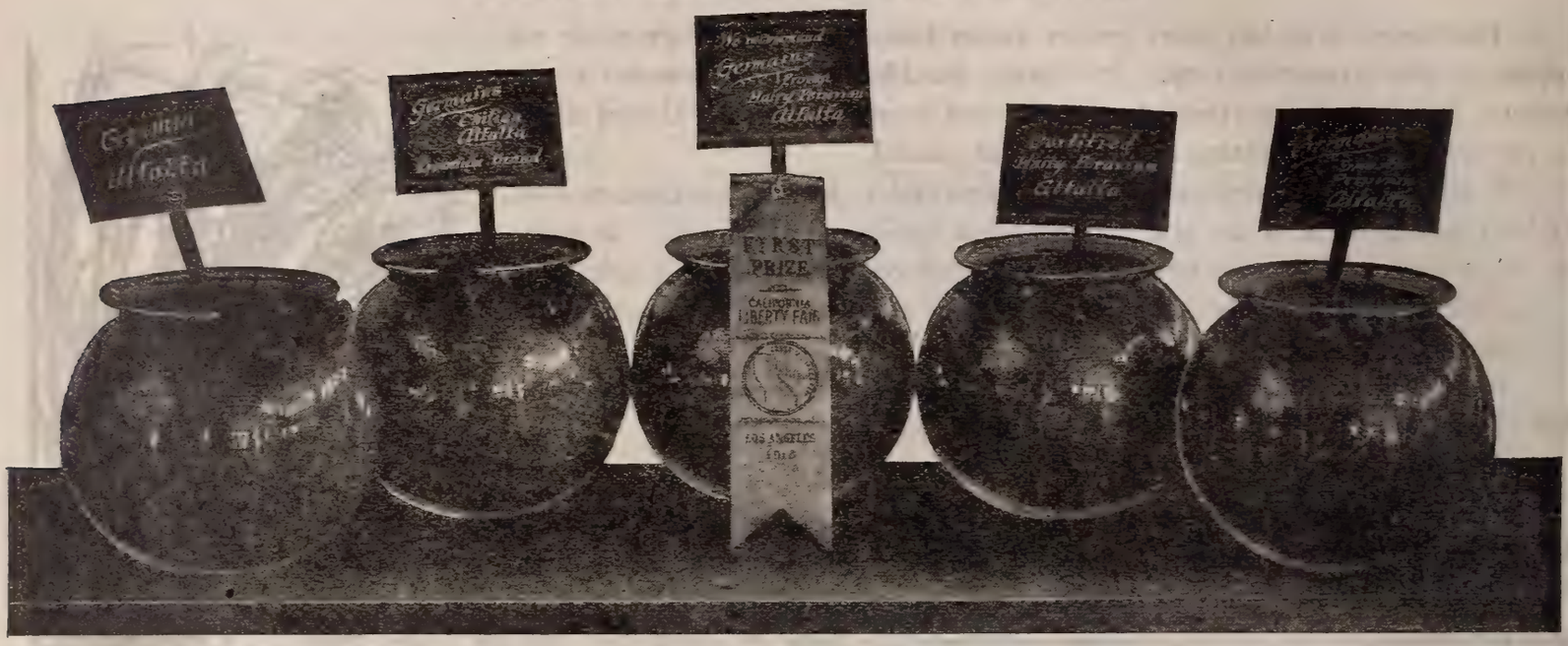
Price per pound $1.00, 10 pounds $9.50, postpaid.



SUDAN GRASS

ALFALFA (*Lucerne*)

WRITE FOR QUANTITY PRICES



The above photograph was taken at our alfalfa exhibit at the Liberty Fair that was held in Los Angeles in 1918. You will note that Germain's Proven Hairy Peruvian Alfalfa Seed took first prize over all other varieties. This was also in competition with a great many other entries. Alfalfa seed is one of our leading specialties and we have men who are experts in this line who do nothing else but select different strains of alfalfa for us. Every year there are a great many hundreds of tons of alfalfa seed sold to the farmers by unreliable parties which are either fouled with foreign weed seed that become a detriment to the land on which alfalfa is grown, or else the variety is not genuine and true to name. That is why we take special care in contracting for our seed. Each pound that we sell is grown under the direct supervision of our own experts and therefore you can rest assured that when we sell *Chilian, Smooth Peruvian or Germain's Proven Hairy Peruvian Alfalfa Seed,* it is just exactly as we represent it to be. You are taking absolutely no chances.

VARIETIES

GERMAIN'S PROVEN HAIRY PERUVIAN ALFALFA

Sold only in sealed bags—none genuine without seal

PRODUCES 2½ TONS MORE HAY TO THE ACRE

This wonderful variety of alfalfa is rapidly taking the place of all other varieties in the States of California, Arizona, Nevada, Oregon and Washington. This is the plant that has created a big sensation among alfalfa growers. *Germain's Proven Hairy Peruvian Alfalfa* is the hardiest type ever introduced here successfully and has the longest producing season. It produces a greater abundance of leaves than any other variety, thus creating the highest feeding value. Results obtained by practical ranchers show an average increase of 2½ tons of hay per acre per season over common varieties. After each cutting it recovers very quickly, giving additional cuttings per season over other varieties. We successfully introduced this seed in this section—and we stand solidly back of it. All our seed is sold in sealed bags and stenciled with the name Germain's Proven Hairy Peruvian Alfalfa—and in order to insure perfect results we advise you to buy only the proven Germain variety. Prices per lb., 70c; 10 lbs., $6.50, postpaid. **Write for quantity prices.**

SMOOTH PERUVIAN ALFALFA

This variety of alfalfa is next to Hairy Peruvian in production and quality. Our stock of this seed is also especially selected, recleaned and of the highest quality. Per lb., 60c; 10 lb. lots, $5.50, postpaid. **Write for quantity prices.**

CHILIAN ALFALFA

This is the old type of alfalfa seed used extensively before the introduction of the Hairy Peruvian. We furnish only recleaned seed of high germination properties and can assure you that it is the best on the market. As it leaves our plant after being recleaned several times, you will find it free from foreign matter, and of high quality. Prices per pound 50c, 10 pounds $4.50, postpaid. **Write for quantity prices.**

INFORMATION. Do not fail to write for our pamphlet entitled "ALFALFA." This is free to you and if you are planting out Alfalfa, it will be of special interest. It is a pleasure to us to quote you on the different varieties and send you samples at any time that you may be in the market. We make a specialty of Alfalfa and shall be pleased to advise you on any point about which you are in doubt.

MELILOTUS ALBA CLOVER

WRITE FOR QUANTITY PRICES

This picture shows a herd of approximately 1500 sheep grazing on Melilotus Alba White Blossom Sweet Clover on the ranch of the American Beet Sugar Company, at Chino, California, of which Mr. Walter I. Langdell is Superintendent.

Melilotus Alba Clover is the only real rival to alfalfa. Melilotus Alba Clover has for the past few years been recognized as one of the leading summer cover crops, especially in orange and lemon groves, but today hundreds of tons of Melilotus Alba Clover Seed are being sown in California as a general soil renovator. The large Beet Sugar Companies of the State are using it to reclaim their alkali soils so as to put the land in shape for further plantings of sugar beets. Melilotus Alba White Blossom Sweet Clover is a biennial and therefore lives only two years and then dies. During this time it develops a tremendous tap root which penetrates the very hardest soil. It stands excessive moisture and also extreme drought. The flowers of the plant furnish excellent food for the bees and the plant itself furnishes excellent pasturage for all kinds of live stock. A great many of the large ranchers are planting this clover to build up their land, and as it makes several crops through both winter and summer, during the two years of its growth, thousands of head of stock are being pastured on it during this time. It will grow on any kind of soil, from light sandy soil to heavy clay soil, and when once established requires very little water, in fact in some of the foothill sections of California the plant grows wild, reseeding itself every two years and depending entirely on the annual rainfall for its growth. After its real value is once known generally Melilotus Alba Clover will be seen growing on almost every ranch that is in need of such a crop. In California the seed is generally sown in the Fall of the year for the first rains, using on an average of 20 pounds of seed per acre. The seed can be sown with a nurse crop of grain or alone. The seeds should be covered very lightly in a well prepared seed bed for best results. On account of the increasing demand for this clover, we have made special efforts this season to procure the finest seed that is to be had. We are prepared to take care of your wants immediately.

Prices: Per lb., 50c; 10-lb. lots, $4.50, postpaid. Write for prices in larger quantities.

CLOVER SEEDS

(QUANTITY PRICES AND SAMPLES ON REQUEST)

Note—Prices on half pound and up to and including ten pound quantities, include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on page 1.

INCREASE YOUR TONNAGE. Expense, time and labor is the same whether your crop be large or small. At a cost of only $2.00 per acre you can get a fifty per cent. larger tonnage (in clover crops) by inoculating your seed, which we strongly advise. For particulars, see page 43.

ALSIKE (Trifolium hybridum). Very hardy, resisting cold and drought and is also will adapted for sowing on cold wet land. It yields a large amount of hay or pasture and makes a good bee plant; 70 cents per pound, 10 lbs. $6.50, postpaid.

BURR CLOVER. Strongly resembling alfalfa. It is a great nitrogen-gatherer. Orchardists regard it with great favor as a green fertilizer, thriving in shady places where peas fail. Hulled, solid seed, free from burr. Fifteen pounds per acre. Due to shortage, please write for prices.

ITALIAN CRIMSON, OR SCARLET (Trifoliumincarnatum). Used chiefly as a soil improver; 45 cents per pound 10lbs. $4.00, postpaid.

JAPANESE (Lespedeza striata). Makes a fine pasture plant for barren land, where it will grow eighteen inches high; on good soil it grows thirty inches. Stock of all kinds relish it. 70 cents per pound, 10 pounds $6.50, postpaid.

MAMMOTH RED, OR COW GRASS (Trifolium pratense perenne). Very vigorous grower. 65 cents per pound, 10 pounds $6.00 postpaid.

MELILOTUS INDICA (Sweet Clover). A strong growing plant of the Clover Family, especially recommended for Cover Crop purposes. Write for our pamphlet entitled, "COVER CROPS". It tells you all about it. It is mailed free on request. Special price given in quantity lots. Write for sample and prices. See page 55.

RED CLOVER (Trifolium pratense). Should be in all pasture mixtures; 65 cents per pound postpaid.

WHITE CLOVER (Trifolium repens). See page 68. Pound $1.25, 10 pounds $11.50, postpaid

PURPLE VETCH

Write for Prices.

We have at last secured an adequate supply of Purple Vetch seed, which will be ready for the market about September 1, 1921.

Since the introduction of this super-cover crop nearly five years ago, the supply of seed has never been sufficient to warrant its introduction to the ranchers.

Due to the constant efforts of the Germain Seed Company, an ample supply of this seed has been secured this season, to be replanted to insure an adequate supply in the future, providing, of course, that there is no crop failure this season. We would advise that all interested in this wonderful cover crop place their orders at once for future delivery.

TEN REASONS WHY PURPLE VETCH IS THE SUPER-COVER CROP

1. It makes the heaviest growth of any leguminous cover crop known.
2. It contains more pounds of Nitrogen per ton of green manure than any other cover crop.
3. It makes the quickest growth of any cover crop.
4. It will germinate in a seed bed too poor for Melilotus.
5. It can be planted later than any other cover crop.
6. It makes the best growth in cool weather of any cover crop.
7. It can be plowed under earlier in the Spring than Melilotus.
8. It will start with less moisture in the Fall than Melilotus.
9. Owing to its complete root system it more thoroughly pulverizes the soil than any other cover crop.
10. On account of its fine stem and leaves it will decompose more quickly than any other cover crop.

Remember—Purple Vetch will practically do as much good in one year as any other cover crop can in two years.

TABLE OF RELATIVE VALUES OF COVER CROPS

Plot	Green Manure Crop	Average Tonnage of Green Manures on Acre Basis	No. of Analyses	Percentage of Water	Per Cent Nitrogen in Green Weight	Pounds of Nitrogen Per Ton Green Tops	Pounds Nitrogen Per Acre
1	**COMMON VETCH**	**12.0**	**25**	**82**	**.538**	**10.8**	**129.6**
2	Non-Legume	10.9	4	82	.281	5.6	61.0
3	Burr Clover	12.7	21	84	.637	12.7	161.3
4	Non-Legume	9.0	4	82	.281	5.6	50.4
5	**PURPLE VETCH**	**20.0**	**5**	**81**	**.569**	**11.4**	**228.0**
6	Non-Legume	9.7	4	82	.281	5.6	54.3
7	Vetch	12.8	4	82	.518	10.4	133.1
8	Non-Legume	9.2	4	82	.281	5.6	51.5
9	Canada Peas	7.5	18	80	.633	12.7	95.2
10	Non-Legume	11.0	4	82	.281	5.6	61.6
11	Tangier Peas	13.7	5	86	.494	9.9	135.6
12	Non-Legume	8.7	4	82	.281	5.6	48.7
13	**MELILOTUS INDICA**	**13.7**	**9**	**80**	**.556**	**11.1**	**152.0**
14	Non-Legume	10.5	4	82	.281	5.6	58.8
15	Fenugreek	12.3	12	82	.557	11.1	136.5
16	Non-Legume	8.9	4	82	.281	5.6	49.8
17	Lentils	12.1	7	75	.650	13.0	157.3
Average of Nine Legume Plots		13.0	11	81	.572	11.4	148.2
Average of Eight Non-Legume Plots		9.7	4	82	.281	5.6	54.3

This table was compiled by Mr W. M. Mertz in 1918 from experiments conducted at the University of California Citrus Experiment Station at Riverside. Analyses by Messrs. J. H. Norton, H. D. Young and E. E. Thomas from Bulletin No. 292, California Experiment Station, 1918.

Read about the Watermelon Contest on Page Five

COVER CROP OR SOIL RENOVATORS

WRITE FOR PRICES

CANADIAN PEAS

This small round smooth yellow Pea is generally grown for cover crop purposes in this section. Per pound 20 cents.

WHIPPORWILL COW PEAS

Cow Peas are becoming more popular as the years come around. We predicted sometime ago that California would become a great user of Cow Peas and the time is now coming for this prediction to come true. The planting of Cow Peas for a Summer or early Spring cover crop is going to become more popular every year, and this variety is the best adapted for that purpose. The vines are large and spreading and if planted correctly will cover the entire ground of the orchard, which is so much desired by the orchardists.

This variety is especially recommended for its quick growing habits and therefore, is an ideal variety as a cover crop to counteract the June drought. Per pound 25 cents.

MAMMOTH YELLOW SOY BEANS

This is another variety of early Spring or Summer cover crop seed which is also quite popular. They do not cover the ground as well as the Whipporwill Cow Peas. However, as a nitrogen gathering plant they are hard to surpass and we strongly recommend them if you desire to obtain nitrogen for your soil. For years the Soy Beans used in California have been imported from Japan and has been inferior seed. We are offering this year the Mammoth Yellow Soy Bean which is far superior to all other varieties and will run true. 25 cents per pound, postpaid.

BLACKEYE BEANS (See page 57)

VELVET BEANS

This is a very popular variety of a soil renovator in the South. It is bound to become a favorite here. It should be planted the same as any variety of Cow Pea. 25 cents per pound.

SESBANIA (Native Hemp)

This is a native legume, growing wild in theColorado River basin. It is an ideal cover crop for the hot sections of our desert land. The seed is difficult to gather, which is the reason for its high price.

We have known crops of Onions greatly benefited by this cover crop being planted immediately after last crop of onions were harvested, and we especially recommend it for Riverside County and Imperial Valley. Per pound 30 cents.

RYE (See page 58)

BARLEY (See page 58)

FENUGREEK

In the past this was one of the most popular varieties of cover crop seed, but it has lately, become more or less obsolete, due to the advantages of the other crops over it.

VETCH (Spring)

This is the variety used by the Orchardists in Southern California as a cover crop, and large quantities are handled by us. 'The name "Spring" as applied to this sort is misleading, for it should be planted in the Fall to obtain the best results. The best time to plant is from the first of August to the first of January.

MELILOTUS INDICA

The most popular Cover Crop in Southern California. We handle hundreds of tons of it, and due to our new facilities for recleaning and scarifying this seed we are enabled to offer a quality of seed that is far superior to that which is ordinarily sold through out the country. We have tested out hundreds of samples, this year of different lots that have been sold in this section. One cannot tell by the appearance of this seed as to whether or not it is of good germination. The seed may look extra fancy and still may be of poor germination. We have made a study of this seed and find that by putting it though a certain machine, that we can raise the germination twenty to twenty-five percent on the ordinary seed that is sold on the market. We have prided ourselves on the quality of this seed and this year none of our seed showed a lower germination than ninety percent, and a purity test of ninety-nine and and one-half percent. Per pound 25 cents.

HORSE BEANS (Large Seed)

This is the Broad Windsor Bean which is being used as a cover crop and is becoming quite popular in this section. The seed is about an inch to an inch and a half long, and about half as wide. They are flat in appearance. Per pound 25 cents.

HORSE BEANS (Small Type)

This Bean belongs to the same family as the above variety, however, the seed are about one-fourth the size. It grows in identically the same manner. The same amount of humus will be put in the soil by planting this type in preference to the large-seeded variety, and in purchasing this sort, considerable money can be saved for the reason the price is not more than half again as much and on the other hand the purchaser gets about four times as many seeds to the pound. We recommend the planting of 30 lbs. per acre. They are always free from weevil, therefore the germination is better. 25 cents per pound postpaid.

GRASSES

WRITE FOR QUANTITY PRICES

The following varieties of Grass Seeds are those used in this section of the country. However, there are, from time to time various new varieties, and also there is a desire by many of our customers to try out new sorts. If you do not find listed herein the variety you are especially interested in and you desire information concerning some unlisted varieties, write us, and we will be glad to give you what information we have on it, and if you desire the seed, we will obtain it for you. We have experts with us who understand Grass Seeds and we are, therefore, in a position to advise with you.

Note.—Prices on half pound and up to and including ten pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fractionthereof. Prices listed for larger quantities, if desired, sent by Parcel Post, necessary postage should be added. See our Parcel Post schedule on Page 1.

BERMUDA GRASS (Cynodon Dactylon). Suitable only for climates where the winters are not below the freezing point. It stands the hottest and driest season. Sow six pounds per acre. Pound 85 cents.

KENTUCKY BLUE GRASS (Poa Pratensis). One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year. Sow 28 pounds per acre. For prices, see page 62.

For Lawns—Blue Grass is used very extensively for lawns and is found in all lawn grass mixtures.

CRESTED DOGS TAIL (Cynosurus Cristatus). A perennial grass with short, narrow leaves; valuable for lawns or pastures on dry, light land. Pound 75 cents.

CREEPING BENT GRASS (Agrostis Stolonifera). Well adapted for sandy pastures near the coast, and good for pasture on low lands. If sown alone, use 25 pounds per acre. Excellent for lawns. Use 12 to 15 pounds per 50-foot. Pound 75 cents.

ITALIAN RYE (Lolium Italicum). A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for temporary meadows or pastures. Thrives best on soils that are slightly moist, and will even stand considerable overflow. Grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable. Sow 40 pounds per acre. Pound 35 cents.

AUSTRALIAN RYE GRASS (Lolium Perenne). A strong growing, hardy perennial grass, noted for its nutritive qualities. Is equally valuable for both grazing and hay. Forty pounds per acre.

For Lawns this is used and recommended by many gardeners. If sown thickly it makes a fine lawn, and for large grounds and parks it is very successful. Pound 35 cents, 10 pounds $3.00, postpaid.

FESCUE RED (Festuca Rubra). Forms a close rich sod, thrives well in dry, sandy and acid soils. Roots creep extensively. Valuable in lawns and should be included in putting green mixtures. Pound 65 cents.

NATAL GRASS. A native grass of South Africa. It is strictly an annual grown widely in semi-arid and semi-tropical countries. It is used as a hay or pasturage plant. Sow seed in early spring after soil is thoroughly warmed. It matures in about 90 days. $1.00 per pound. Write for quantity price.

ORCHARD GRASS or COCKSFOOT (Dactylis glomerata). Valuable alone or mixed with other grasses. Very often mixed with white clover, red clover, and rye grass. Per lb. 50 cents.

VARIOUS LEAVED FESCUE (Festuca Heterophylla). Grows 2 to 3 feet high, valuable for permanent meadows, either for mowing or grazing. It is especially valuable as a lawn grass for shady places. Pound 75 cents.

RED TOP (Agrostis Vulgaris). A good perennial grass. Generally sown for permanent pastures. Does best on moist or even marshy land. If the ground is not overflow land mix with Meadow Fescue, Orchard Grass or Alsike Clover. Sow 14 pounds hulled. Pound 45 cents.

RHODES GRASS. An Australian grass which grows readily on sandy or light soils. Grows thickly producing from 5 to 10 tons of fine quality hay. It is uery palatable to stock, easy eradicated when desired and very highly recommended by farmers who have grown it. 1 lb. $1.00, 10 lbs. $9.50, postpaid.

RHODE ISLAND BENT (Agrostis Canina). Resembles Red Top. Makes a close sod valuable for permanent pastures and meadows. Twenty-eight; pounds per acre. For lawns, use 12 to 15 pounds per 50-foot lot. Gives good results. Pound 75 cents.

SWEET VERNAL (Anthoxanthum Odoratum). Valuable to put in pasture mixtures and lawn grass on account of its earliness Twenty-eight pounds per acre, but this grass is recommended only for use in mixture. Pound 85 cents.

TIMOTHY (Phleum Pratense). This is the most valuable of all grasses for hay. Thrives best on moist, loamy soil. Sow early in the spring or fall. Sow 15 to 20 pounds per acre. Pound 35 cents.

WOOD MEADOW GRASS (Poa Nemoralis). As a lawn grass its creeping roots soon form a good turf. Of early growth and thriving well under trees where other grasses will not grow, most valuable lawn mixture, especially for shady places. Pound 85 cents.

AWNLESS BROME GRASS. (Bromus Inermis) withstands drought that kills other grasses. Unexcelled under such condition. Price, pound 60 cents.

ROOT CROPS

WRITE FOR QUANTITY PRICES

STOCK BEETS

For the last three years we have been advocating the planting of Stock Beets for feed. Our work has told. There are more acres planted to root crops in the Southwest than ever before.

Why should the farmers of California continue to pay $40.00 to $50.00 per ton for dried beet pulp, which is merely a residue left after taking the sugar out of sugar beets, when the stock beets which contain all the natural elements with nothing taken out can be produced right on your own ranch for $2.00 per ton.

Stock Beets are one of the finest fat and milk-producing crops we have today and when fed in conjunction with grain they are worth nearly as much, pound for pound, as the grain itself. This statement may seem a little strong, but experience has shown that Stock Beets aid digestion and assimilation by keeping the animals in extra good condition. By feeding the same in conjunction with grains it increases the feeding value of the grains.

PRODUCTION AND COSTS

The average production of Stock Beets at our trial grounds was 35 tons per acre. This is not exceptional—80 tons per acre has been reported.

The average cost of production on a basis of 35 tons per acre is $2.00 per ton. Compare this with $40.00 to $50.00 per ton, which is the cost of Beet Pulp today.

CULTURE

Stock Beet seed should be sown about one-inch deep, in well-cultivated soil in drills eighteen inches to three feet apart (depending upon the method of cultivation). When the plants are sufficiently large, thin out to to stand ten to twelve inches apart in the rows. The seed is generally sown at the rate of eight to ten pounds per acre. Beet seed is very hard and does not germinate as easily as other seeds, therefore, the soil should be very moist at the time the seed is planted. If the soil should be dry it is advisable to soak the seed in luke-warm water for twenty-four hours before planting.

VARIETIES

Germain's Prize Mammoth Long Red

There is no other root crop grown which produces so large a tonnage per acre as the Germain's Prize Mammoth Long Red Beet. Our strain of Mammoth Long Red is exceptionally fine and expressly grown for our own trade from selected well-shaped roots.

This Beet has a distinct appearance; roots are massive, straight and uniform in size, broad shouldered, free from coarseness and of most excellent feeding and keeping qualities. Pgckets 10c, 1 lb. 70c. 10-lb. lots $6.50, postpaid.

Giant Half Sugar Mangel

This variety is one of the favorites among the dairymen and hog raisers. It is very sweet and nutritious, as it has a larger sugar content than the ordinary mangel. It is a cross between a sugar beet and a regular mangel wurzel, therefore its name. It is also a splendid yielder and good keeper. Packet 10c, 1-lb. 70c., 10-lb. lots $6.50, postpaid.

Golden Tankard

This is also a very popular variety. The roots are large, ovoid, but filled out at top and bottom, terminating with a small tap root; flesh deep golden yellow, solid, crisp, sweet and rich. Does not keep quite as well as the two above mentioned varieties. Packet 10c; 1-lb. 70c, 10-lb. lots $6.50, postpaid.

Sludstrup

While this Beet is one of the favorites in Europe, its popularity in America is not to be compared with the Mammoth Long Red. The roots are very solid, large at the top and gradually tapering to a point. The part of the root growing above the ground has a greenish tinge, while the part growing in the ground is white. Packet 10c, 1-lb. 70c, 10-lb. lots $6.50, postpaid.

SUGAR BEETS

This is a variety that can be planted for stock food purposes. The tonnage per acre will not be as great as above mentioned varieties, but the sugar content will be much higher. Packet 10c, 1-lb. $1.25, 10-lb. lots $11.00, postpaid.

STOCK CARROTS

It is a well known fact that Carrots are mighty good farm food and analyses made by a National Chemist showed the Carrot content as follows:

Albuminous Compounds	.7
Fat	.2
Pectine	1.2
Cellular Fiber	3.5
Sugar	6.5
Ash	.9
Water	87.0

For description of the varieties we refer you to page 23. The varieties we recommend are White Belgian and Yellow Belgian.

RUTABAGAS

This is one of the Standard English root crops which should be planted like ordinary Turnips. The yield per acre is immense, and food value very good. We refer you to page 42 for prices and description. Names of the varieties are: Improved Yellow Purple Top and Large White.

ARTICHOKES (JERUSALEM)

For hogs Artichokes are the cheapest and best feed. They never fail. They should be planted and cultivated same as potatoes. They are remarkable for fattening properties, and great productiveness. They are said to be preventives for cholera and other hog diseases, and are recommended for milk cows to increase the supply of milk. Write us for more detailed information and prices, it will pay you to do so.

FIELD BEANS AND PEAS

WRITE FOR QUANTITY PRICES

We have itemized on this page, by cuts and descriptions, the most popular beans raised in districts west of the Rocky Mountains. Owing to the fact that most of these beans are planted in quantities, we have not stated any prices, as they are subject to fluctuation due to the influence of season and of conditions in the commercial market. You can always depend upon our field beans being of selected, true-type varieties; and we are in position to furnish any quantity when the season will permit us to lay in large stocks.

GARBANZA OR CHICK PEA. Grown very extensively in California, preferably in the drier sections. It stands almost as much cold weather as horse beans or cowpeas, and can be planted as late as June, which makes it practically an all year round crop. The majority of the crop is exported to Spain for edible purposes.

TEPARY BEAN. The most drought-resisting bean grown in California. Suitable for planting on dry soils and in dry seasons. Very sensitive to cool climate and excessive moisture. Matures in ninety days, and by careful management two crops can be raised on the same soil in one year.

SMALL WHITE BEAN (NAVY). This is grown extensively on truck soils. It is especially adapted to coastal valleys as the intense heat of the interior valleys is somewhat detrimental to its growth.

BLUE POD. This is a new strain of small white or navy bean, having been propagated from that variety. One of its chief characteristics is that it blossoms and ripens earlier, and has a more open vine, which permits it to cure more rapidly in the field.

LADY WASHINGTON. Commonly known as Large White bean. It might be known as an all round bean, especially adapted to bottom lands, and where moisture is easily obtained. It is also freer from attacks of mildew than the other common varities of beans.

PINK BEAN. Very common variety. Will grow almost anywhere, provided it has plenty of moisture. It is more particularly adapted to bottom lands. Will also withstand very hot weather, and ripens early in the season.

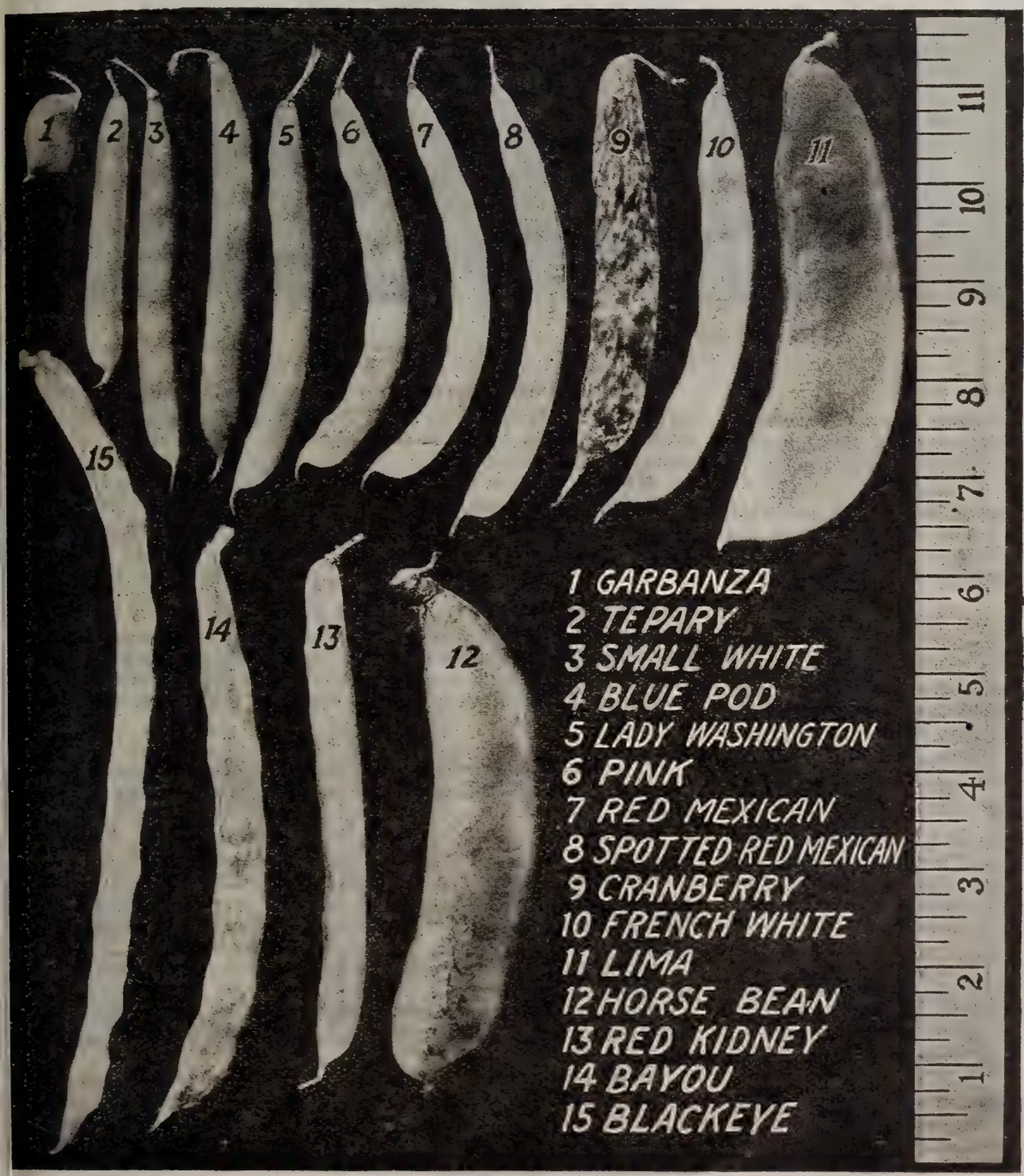
RED MEXICAN. Grows like the Mexican Pink bean, but is a much heavier yielder under extreme heat, and for that reason is gradually replacing the pink variety.

SPOTTED RED MEXICAN OR PINTO. (With the exception that the spots are red instead of brown, as in the Colorado and New Mexico Pinto bean). It is grown very extensively in California and Arizona.

CRANBERRY. Will grow under almost every condition that the pink bean will stand. Is raised more extensively on river bottom land. Hot, moist climate.

FRENCH WHITE. Resembles very closely the Lady Washington, but does not produce a trailing vine, and has a much larger bush. Also ripens earlier in the season than the ordinary small white bean. It is gaining favor each year.

LEWIS LIMA. Commonly known as the Ventura Lima. Used for commercial purposes, and is grown on all land which is subject to heavy fogs, such as the Coast district.



BROAD WINDSOR (HORSE BEANS). A hardy, winter crop, planted from October up to February and March, so that the harvest can not take place before the hot Summer months. Used extensively as a green manure cover crop in orchards. See cut.

SMALL WINDSOR (NEW ZELAND HORSE BEAN). Analagous to the Broad Windsor variety, only smaller in size, but will yield the same amount of foliage.

RED KIDNEY. Becoming very popular in the lower moist sections. Can be planted very early as it is a bush variety. The pods all grow so that they do not touch the ground, and therefore suffer a minimum of discoloration due to contact with the ground moisture. At harvest the leaves fall off, leaving the bean-pod exposed to the sun therefore curing very rapidly. May be planted in 18 to 24 inch rows and cultivated by hand. Splendid for table purposes; also becoming very extensively known commercially.

BAYOU. Rather difficult to raise except on river bottom land, and cannot be successfully forced by irrigation. Rather difficult to get to set properly, as it is somewhat susceptible to red spider pest.

BLACKEYE (COWPEA.) A dry land bean adapted to early planting in hot, dry districts. Matures too late on irrigated soil to be of advantage; also with excessive moisture it puts forth long runners which are very detrimental to quick harvesting. Very susceptible to cold weather, as the pods fail to set properly, and the plants are dwarfed. Grows splendidly on semi-alkali soil.

HENDERSON'S BUSH LIMA. This variety is commonly known as the Baby Lima, being very small; but is a particularly fancy bean for table use. Is very much in demand by the large hotels. It is unlike the large Lima bean in growth, as it can be raised on the interior dry sections and does not require the fog for moisture, as the large Lewis Field Lima variety.

YELLOW EYE. This bean is a popular one in the New England states, and is commonly used for the Boston baked beans. It is very highly flavored, being easily cooked and very palatable.

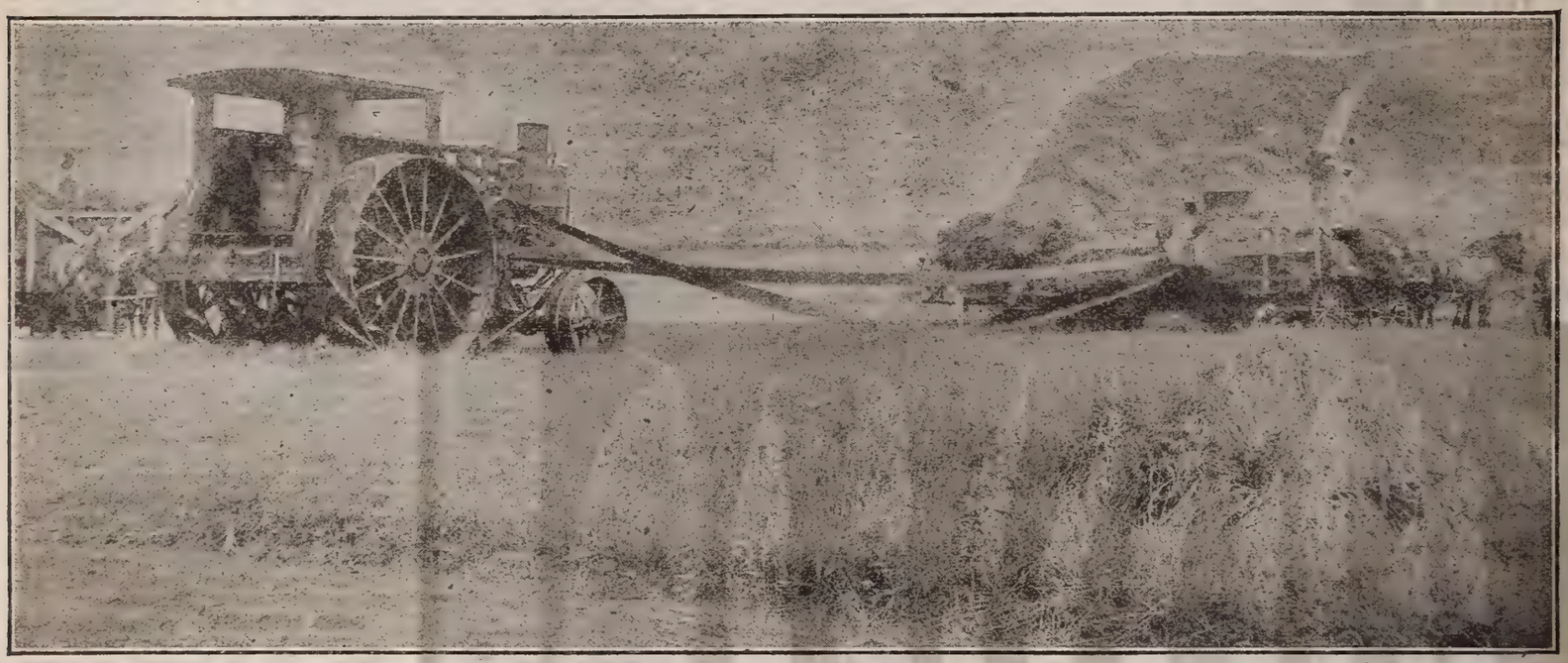
The Kentucky Wonder Bean Is The Best Table Variety

GRAINS

WRITE FOR QUANTITY PRICES

In past years we have been obliged to depend more or less upon reliable growers for our grains for seed, and after comparing the results from year to year we have contracted with the very best growers in order to offer you quality and purity of the highest standard. Prices are influenced by market conditions, and we ask that you write for figures stating quantity desired, so that we can give you the benefit of the lowest prices in effect at the time.

To rid your grain crops of smut and rust, we recommend dipping your seed in a weak solution of "Blue Stone." The dilution is one pound of Bluestone to five gallons of water. Soak the seed for ten minutes. The same solution can be used over and over again.



HARVESTING OATS

BARLEY

Sow 65 to 100 lbs. to the acre

HULLESS OR BALD. This grain is sown about the same as wheat, in the fall of the year. The Hulless or Bald sort thrashes entirely clear of the hull, and is therefore a very valuable grain for the feeding of stock and poultry.

BEARDLESS. We have a perfect strain of this variety, produced from a single head of superlative type. The present crop is the sixth successive re-production from the original planting from the selected head, and is now producing perfectly without a single head of bearded type.

COMMON. This seed is selected from good, average-weight grain, free from foreign grain and weed seeds.

MARIOUT. This variety of barley is one that has just been introduced by the University of California after experiments conducted at their experiment station. It yields more prolifically than any other variety which has ever been tried on California soils; and will no doubt assume a predominating position within a very few years. It is sown the same as other barleys.

BUCKWHEAT

JAPANESE. The most prolific variety with large grains, brown to dark brown in color. Sow after danger of frost is over either in drill or broadcast. The plant ripens early and stands well in the field. Price per pound 25 cents postpaid.

OATS

RED RUST-PROOF, Texas grown. This seed is from selected Texas stock, thoroughly recleaned, giving you a higher percentage of plump oats than you can ordinarily buy from the mills. It is all graded according to the State standards of Texas, and we are so situated that we obtain the best seed which that great State is able to produce.

RED RUST-PROOF, California grown. These are the Tesas oats after they have been grown in California two years, thoroughly acclimated, somewhat lighter in color than the Texas-grown, but in every way satisfactory for re-planting in California.

RYE

COMMON OR WINTER. Our seed is obtained from Utah fields, as this produces better in California than that which has been grown here, and yields larger kernels. It is used extensively for cover crop purposes.

ROSEN. This is a large variety of rye propagated by the University of Michigan, being larger than common, and produces a heavy yield of green fertilizer for cover crop purposes. Met with splendid success last season and increased demand expected.

SPELTZ

SPELTZ OR EMMER. This is of the same family as wheat. For semi-arid regions this species is very hardy and drought-resisting. It is valuable for stock feeding, both as grain and forage, and produces well on soils of poor character and little moisture. It is sown here in the fall or winter, in the same manner as wheat and barley.

WHEAT

It is not good practice to grow many different varieties and we have therefore selected only those most successfully grown in this section.

DEFIANCE. A rust-proof variety, a heavy yielder, hard and splendid for milling purposes; large heads, plump kernels.

SONORA. A popular variety in California, especially in the southern counties; matures early and yields heavily; will stand more drought than most; soft; suitable for blending in the manufacture of flour.

TURKEY RED. A hard red wheat, very high in gluten, valued for milling purposes.

DURUM OR MACARONI. A hard wheat which does especially well in semi-arid regions; is drought-resistant and a heavy producer; large kernel.

EARLY BAART. This is a bearded variety of spring wheat, large white grain, of exceptional miling quality; will average two or three weeks ahead of ordinary sorts of white wheat; and produces a larger crop. Was planted extensively last season, and is continually increasing in popularity.

MISCELLANEOUS FARM SEEDS

(QUANTITY PRICES AND SAMPLES ON REQUEST)

Note.—Prices on half pound and up to and including ten pound quantities include postage or express prepaid. When sent otherwise deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, desired sent by Parcel Post, necessary postage should be added. See our Parcel Post Schedule on Page 1.

ALFILARIA

ALFILARIA (Erodium cicutarium). One of the most nutritious of plants; cattle, sheep, horses and hogs alike prefer it to any other natural product of the plains. Pound 85c. Sow twenty pounds to the acre.

ARTICHOKE

ARTICHOKE, JERUSALEM (roots). The greatest hog food known, yielding over one thousand bushels to the acre. It can be grown without a great deal of cultivation and no harvesting is necessary. When the roots are full-grown, turn the hogs into the field and they will help themselves by rooting. We can supply the tubers from February until May. Per pound 25 cents.

BROOM CORN

STERLING DWARF. Per pound 30 cents.

STANDARD TALL. Per pound 30 cents.

CANARY SEED

CANARY. Used for bird food. It is also used as an ornamental grass and for hay purposes. Price, 30 cents per pound.

COTTON

CULTIVATION—Prepare the land by having it thoroughly ploughed. Lay off into rows about four feet apart; sow the seed along the center in a straight furrow made with a small plough or opener. It can also be sown in holes twelve to eighteen inches apart. Sow in March. The young shoot appears above ground in about ten days, and is subsequently weeded and thinned. Blooming takes place about the beginning of June. As a general rule cotton is a dry weather plant. For ploughing, the planter requires just sufficient moisture to give the soil a spongy texture. Give plenty of water in the early stages—but too much is productive of wood, at the expense of wool, and a severe drought will produce a stunted plant. From the blooming to the picking season, warm dry weather is essential.

DURANGO; 10 cents per ounce, 50 cents per pound.

EGYPTIAN. Originated in Egypt; erect and larger size than other cottons, producing an abundance of cotton: 10 cents per ounce, 50 cents per pound.

FLAX

FLAX. When grown for seed, plant forty pounds to the acre. One of the principal things to attend to when growing flax is to see that the ground is well cultivated. Price per pound 40 cents.

HEMP

HEMP is sparingly grown in Southern California. The seed is used for birds. Its fibre is in big demand. Per pound 30 cents.

LENTILS

LENTILS. Used for the table; growth and habits similar to the pea. Quite a favorite in California. Per pound 45 cents.

MILLET

LIBERTY OR GOLDEN (**Formerly German**). Few other grasses or forage plants have been able to produce the enormous yield of this plant; it has produced 4 to 5 tons of hay to the acre, and from 70 to 80 bushels of seed. It can be sown on newly broken ground in the spring, and as late as July leaves the ground in excellent condition for following crops. Pound 25 cents, 10 pounds $2.00, postpaid.

PEANUTS

Plant when weather is warm. A warm, porous, sandy soil, put into a good friable condition and freed from weeds, is most suitable. Remove the pods without injuring the kernel, and place contents in bags or baskets, a small quantity in each, where there is a free circulation of air, until needed for planting. Reject all shriveled kernels. It requires thirty-five pounds of peanuts in the hull to an acre. Plant in rows three feet apart and one foot apart in the row. Cultivate often and keep the ground loose, as after the blossoms drop, the peduncles enter the soil at the base and form the peanut.

VIRGINIA. The best variety for roasting; 40 cents per pound.

SPANISH. In addition to their value for nuts, these are very largely used in the South as a forage and fattening crop for hogs and other stocks. They are early to mature, very productive, and in the far South, where they can be planted in April, two crops can be made in a year, the second crop being planted early in July, the tops making a hay crop and the nuts a grain crop. In harvesting, the nuts hang to the vine and tops and nuts are fed together to hogs, cows and horses as a whole grain ration. Spanish Peanuts grow in more compact form than the Virginia Peanuts, making it possible to grow them closer, making the cultivation easier. 40 cents per pound.

Bigger yields of Peanuts are obtained by Inoculation Read page 43, it tells all about it.

RAPE

DWARF ESSEX. This crop is very highly recommended for pasturage for sheep and cattle, furnishing most rich and nutritious pasturage within six to eight weeks from the time of sowing. The fattening properties of Rape are said to be very much better than those of clover. It also makes splendid green feed for poultry. Rape is best sown in drills, at the rate of three to five pounds per acre, or it can be sown broadcast, when from six to eight pounds per acre should be used. Per pound 35 cents.

RICE

RICE. Very few people probably are aware of the fact that California is coming to the front as a rice producing State. We have secured a quantity of Japanese Rice Seed which has been grown in California for one year, and which makes it especially adapted to California conditions. We are especially posted on Rice Growing and shall be very glad to give you any special information and tell you whether your land is adapted to Rice growing. Price per pound 30 cents.

SALT BUSH

AUSTRALIAN (Atriplex semi-baccatum). Will grow on alkaline soils. Much relished by stock, supplying the necessary salt. One pound of seed to the acre if sown broadcast; four ounces if transplanted. In cutting fodder be careful not to injure the crown of the plants. Ounce 15 cents; pound 75 cents.

AUSTRALIAN "OLD MAN." A distinct species different from the Atriplex semi-baccatum. It succeeds on alkali land as well, and withstands drought. Plant in hills six feet apart each way, several seeds to a hill, thinning out t the two strongest plants. Packet, 10 cents, ounce 30 cents, pound $3.00.

SUNFLOWER

MAMMOTH RUSSIAN. Makes heads double the size of the common kind. The yield is enormous from this variety. It has produced as high as 125 bushels to the acre. Per pound 25 cents.

TEOSINTE

TEOSINTE. Resembles corn, but leaves are much larger; very nutritious. Ounce 10 cents, pound 90c.

TOBACCO

Tabaco **Tabak** **Tabac**

Cultivation of Tobacco is comparatively easy and a warm climate suits it best. The best time for starting the seed is January. Sow in seed beds of rich soil, and as the seed is extremely minute, it is first largely mixed with sand and wood ashes to assist in spreading it thinly. One ounce of seed will sow twenty-five feet square and produce plants for one acre. After the beds have been sown, cover the seed slightly and protect from light frosts. Remove covering as soon as can be done with safety, and the plants will then grow rapidly and are ready for transplanting about the first of June. Wet or foggy weather is the best for transplanting. The plants must be carefully raised from the seed bed and planted in the fields in rows three feet apart and leaving five feet between the rows. The crop needs much careful attention in weeding, and a watchful eye to prevent the ravages of various insect enemies. As soon as the plants begin to throw up the flower-shoot, it is clipped off; otherwise it would weaken the plant.

CONNECTICUT SEED LEAF. Grows to a height of about five feet, with leaves two and a half to three feet in length and from fifteen to twenty inches broad, one of the best varieties for cigar wrappers. Per packet 10 cents, $1.00 per ounce.

HAVANA. Bearing a fine colored leaf, varying from straw color to dark brown or black; it surpasses all other varieties in flavor for cigars; heavy cropper, fine texture, and the earliest variety to mature and ripen.

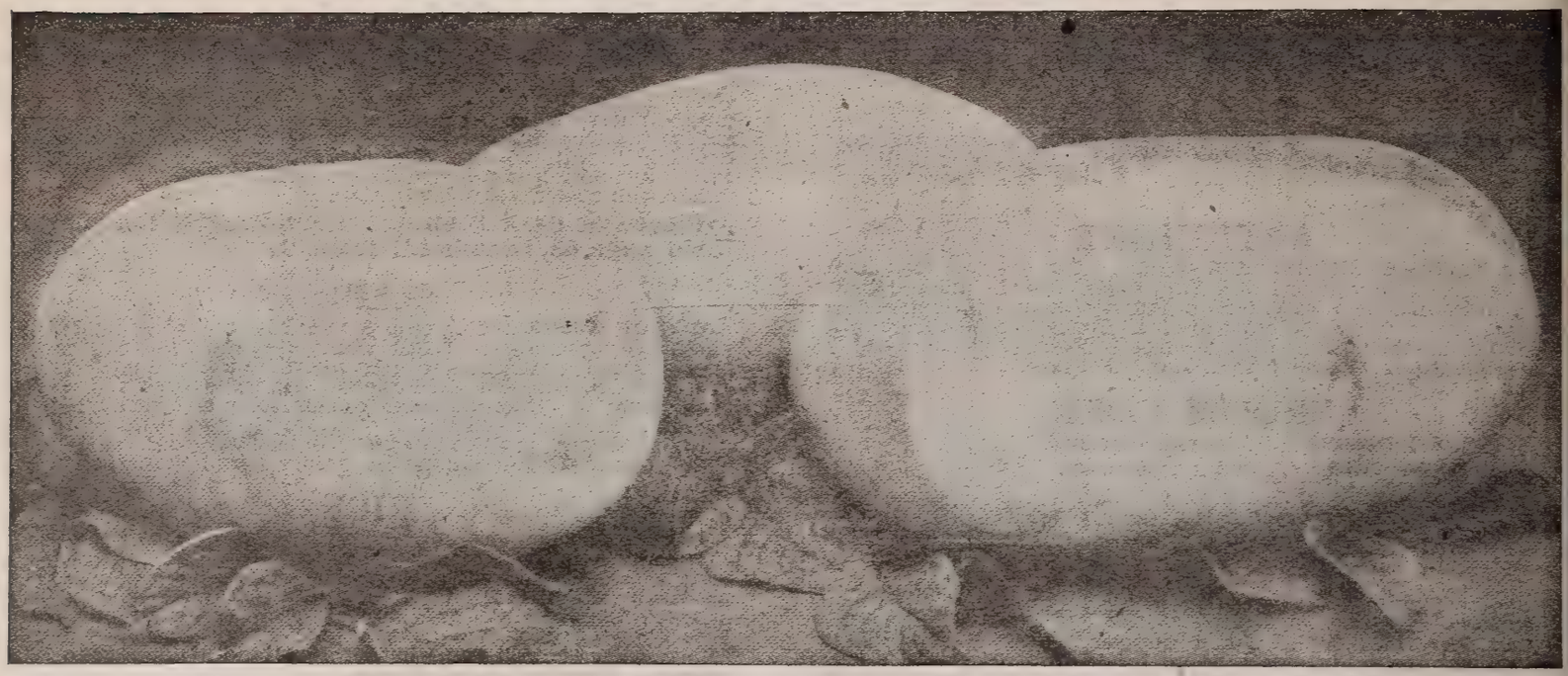
Big Havana (Vuelta de Abajo). Per packet 10 cents, ounce $1.00.

SUMATRA. Per packet 10 cents, $1.50 per ounce.

WHITE BURLEY. Per packet 10 cents, per ounce $1.00.

NORTHERN GROWN POTATOES

WRITE FOR PRICES



EARLY WHITE ROSE

KING OF VEGETABLES

The potato is more extensively grown than any other one vegetable. It may well be termed 'the King of vegetables,' as it is used in every household practically every day and is grown in every state. Last year we alone sold 75 carloads of seed potatoes and this year anticipate the demand to be greater as the potato is a sure means of cutting down the high cost of living. Be sure to plant a plot of ground to potatoes.

We are equipped to give you information as to the variety to plant and when. Our experts will be pleased to answer any question in order to help you produce a better and bigger crop.

The soil should be well worked and thoroughly drained. Sandy loam with a clay sub-soil is best. Eight to ten tons of manure per acre should be used if the soil is lacking in fertility.

The hill or row system may be used in planting. If in hills, they may be three feet apart each way or thirty inches one way and thirty-six inches the other way. The rows are usually three to three and one half feet apart. The distances between the hills in the row varies from 12 to 16 inches apart for early varieties and 17 to 20 inches for late ones according to the soil. On light soils early varieties may be planted four inches deep and late varieties five inches deep. Early varieties are planted any time after the middle of January, but there is danger of their being caught by frost if planted before February first. Usually it is best to plant the main crop of potatoes about the middle of February, as early planting usually gives better results than late planting. The cut seed should be as blocky in shape as possible. Long thin pieces are more likely to rot in the ground. A good method is to begin cutting of pieces at the stem and diagonally across the tuber until just enough is left at the blossom end to make two pieces, when this part should be cut in two so that all the eyes on the end will not be left on one piece.

When the rows are three feet apart and the space between hills is 15 inches, 600 lbs. of seed potatoes are required per acre, if the seed pieces are cut into 1 oz. This is about the average rate per acre for this region.

WRITE FOR PRICES.

Our Northern Grown Potatoes are contracted and grown for us in Oregon under our supervision and inspection. The stock being selected by us and grown in land that is free from disease. Our customers may feel that they are securing the best that can be had.

EARLY WHITE ROSE (White Blossom

Selected Stock

A highly popular smooth and uniform variety which is always in great demand on the market because of its genuine earliness and excellent cooking qualities. A pure white potato yielding a great abundance of medium sized, fine textured tubers. In fact, it actually possesses all the qualities necessary to make it ideal. For a potato that is realy early, try Germain's Premium White Rose—(See cut above).

EARLY WHITE ROSE (Purple Blossom)

Selected Stock

A uniform potato of the rounder type, yielding more heavily than the white blossom White Rose, but requiring a much richer and stronger soil. The vines grow rank, covering almost the entire ground. The tubers do not form in clusters as in the case of the white blossom, but are scattered sometimes reaching as far as the center of the row. They mature about two weeks later than the white blossom but the yield where the soil conditions are suitable is so much heavier that it easily makes up for being somewhat later. It is an excellent market potato, and those who have grown it for the past two years recommend it highly.

EARLY RED ROSE

A Truly Wonderful Variety

The well known and popular pink skinned potato, bearing many qualities common to the White Rose. A real early maturing potato, excellent for first planting. Tubers are medium size, smooth and white meated—an elegant cooker.

EARLY TRIUMPH

Earliest of All

A pink skinned potato of extraordinary quality. An extremely early producer—yielding splendid roundish tubers of medium size. Bliss Triumphs generally produce the first new potatoes

AMERICAN WONDER POTATO

Selected Stock

A medium sized, smooth and heavy producing white potato. wonderfully well adapted to rapid growth under California conditions. Matures in a very short period being extremely healthy and vigorous. The American Wonder potato produces large quantities of perfect tubers in each hill and responds very readily to conditions meant for forcing. This variety is widely planted and many carloads are shipped from California every year.

BURBANK POTATOES

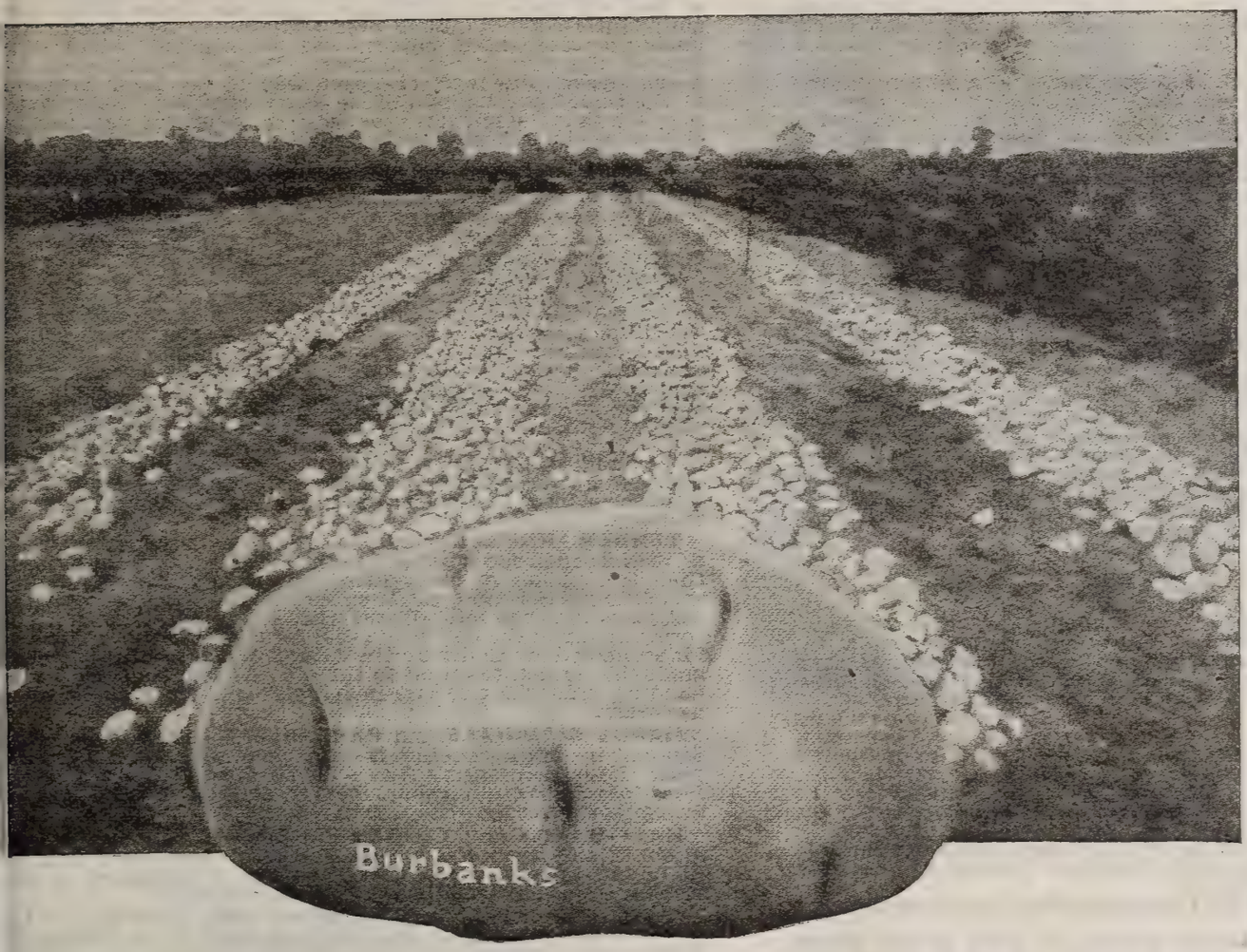
Northern Grown

One of the old standards, probably as widely grown as any variety of potatoes. Produces prolifically and comes to maturity late in the season.

Order your requirements early as we have obtained only a limited quantity of the burbanks northern grown.

Send for leaflet that tells how to prevent scab on potatoes. It's free to those who ask for it.

CALIFORNIA GROWN POTATOES



QUALITY

The potato which we offer for the coming season, is the finest grade of California grown stock obtainable. In addition there being more or less scab on the greater per cent of local potatoes we dip any that show any trace of disease in a solution of Formaldehyde to insure our customers they will harvest good clean potatoes if the soil is free from this disease.

Liming Potatoes

Freshly cut potatoes when planted right out often rot if soil conditions are not just perfect. when cutting your potatoes, put them into a container and on about every six inch layer sprinkle a covering of slacked lime. This will heal the newly cut parts, prevent rotting and help prevent disease.

Use Formaldehyde

Treat all your potatoes with Formaldehyde, it prevents scab and increases your yield Send for detailed pamphlet. Free.

WRITE FOR PRICES

EARLY WHITE ROSE

We have secured a very fine strain of this well known and heavy producing potato which will be suitable for planting in almost any section.

Most of these have been grown by us at our Trial Grounds being true to type and of excellent quality.

AMERICAN WONDER POTATO

We have only a very limited amount of this variety of potatoes but they are of excellent quality, of medium size, and of heavy producing strain, retaining the same characteristics as the Northern grown.

EARLY BLISS TRIUMPH

A pink skinned potato of extraordinary quality. An extremely early producer—yielding splendid roundish tubers of medium size. Bliss Triumphs generally produce the first new potatoes.

BURBANK POTATOES

So well known as an old standard in the potato world that it is unnecessary to describe this grand old variety. Admirably adapted to California.

CHANGE YOUR SEED

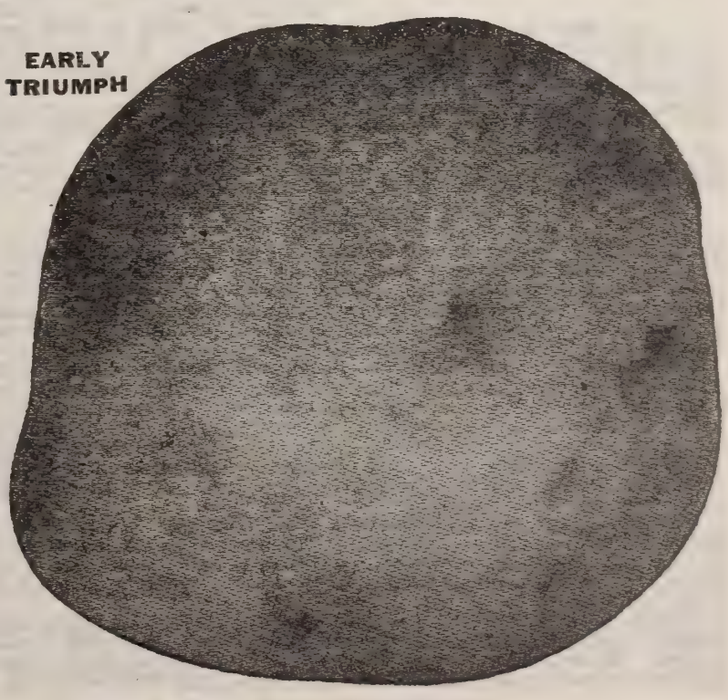
The soil of Oregon and Washington States is made of much heavier, stronger character than here in California, so produces potatoes of greater vitality. By bringing potato seed grown in these states to California, it has been demonstrated much bigger, better, earlier and smoother yields are obtained.

If you want to produce the most for your money, better the quality of your potatoes, buy northern grown seed. If you want longer keeping quantities and uniform size plant northern grown potatoes. Change of seed is a prime factor in potato growing and northern stock is best.

SWEET POTATOES.

We will be able to supply potatoes of such varieties as Yellow Nansemond, Large White and Jersey Red during fall and winter up to February. Write for prices. Plants after March. **SWEET POTATO PLANTS.** **See page 128.**

EARLY TRIUMPH



FLOWER SEED DEPARTMENT

A FEW CULTURAL SUGGESTIONS

Few people are aware of the great number and variety of flowers that can be raised from seed. In this glorious Southland, the time taken to obtain fine flowering specimens is not nearly so long as in colder climates, while varieties grow to splendid perfection, if given a reasonable amount of care. There may be a few of the very hardiest species that need a longer winter's rest than is here afforded, but it has been the experience of growers that these soon become acclimated and flower over a larger season than when the summer is short and hot—the winter long and cold. A little experience has to be obtained as to the suitability or otherwise, of certain kinds for special locations but once a general idea of the likes and dislikes of the plants is obtained, it is plain sailing.

One great advantage in raising a flower garden this way is the saving of money. The price of plants at certain seasons of the year and in times of scarcity, is high. This is unavoidable, but seeds can always be purchased for a few cents. Then the interest of watching—first, the tiny germ or seed leaves and eventually the stems and flowers—is great. It has a charm that is always fresh, always new, and the grower has a feeling that he or she is indeed the real owner of the plant. It has never belonged to anyone else. "I raised that from seed," the owner will say of perhaps a stately Delphinium or other fine herbaceous plant and the pride exhibited in that sentence is surely pardonable and proper. Then the pleasure of giving or exchanging plants with a neighbor is facilitated by seedling raising, because there is always plenty for everybody, so different to having to buy them by the dozen, or hundred. A packet of seed usually means thousands. We have followed the usual course of catalog makers in classifying into hardy, half-hardy and tender annuals, biennials and perennials, but this need not be taken too literally in California, for many things tender in the east, middle west and north, are perfectly hardy here and will grow outdoors the year around without protection of any kind.

HARDY ANNUALS may be sown in the open air at any time The name "Annual" indicates that they live only one season.

HALF-HARDY ANNUALS should be sown in a frame or given some protection until the seed germinates if needed early. By the middle of April, it is quite safe to sow in the open.

TENDER ANNUALS is a term used to distinguish those plants usually grown in greenhouses or frames. Speaking generally, they need more skillful treatment than the hardier kinds, though it is getting quite common now to see such plants as Cyclamens, Cinerarias and others that were formerly grown entirely in greenhouses, flourishing outside on rockeries or beneath trees that throw sufficient shade to protect them from the hottest rays of the sun. This is a type of gardening peculiarly suitable for California, and especially Southern California. Ask us about it if you are interested.

HARDY BIENNIALS are those that flower in the second year from sowing the seed.

HARDY PERENNIALS are among the finest of our border plants. They do not usually flower till the second year after sowing, but may be relied upon to produce larger clumps of flowers year by year for many years.

HALF-HARDY PERENNIALS are those which require some protection during the coldest weather, as they will not stand frost.

TENDER PERENNIALS are those species that require greenhouse or other protection during the greater part of the year. See also tender annuals.

HARDY ANNUALS. The best time to sow is in the fall months, as they will make much stronger plants and flower much more abundantly when wintered over. They may be sown in any finely-prepared shady border, and transplanted when large enough, to where they are to flower. Do not cover the seeds too deeply. A good rule is to cover each seed its own depth with soil, at the same time taking care to water carefully. Never water so much that the soil gets "soggy," i. e., saturated; nor ever let the top get dry. Most varieties will germinate within ten days.

They may also be sown at any time during the spring months for summer blooming, care being taken to shade the young plants after transplanting, in hot weather.

HALF-HARDY ANNUALS may be sown in April out-of-doors, or in boxes, in March or earlier. If in boxes they should be covered or removed under cover during the night-time and during heavy rains. Those who have hotbeds may sow the seed in February and grow the plants in three inch pots for planting outdoors in April, thus gaining two months on those who have not this advantage. If sown in boxes, the boxes should have an inch of rough soil or gravel at the bottom for drainage; the remainder of the box should be filled within an inch of the top with sifted, light, rich soil, firmly pressed, and watered. The seed should be sown, and covered its own depth with soil, then covered with a sack or burlap until germinated, when the covering must be removed. When the young plants are large enough to be handled, transplant to other boxes, planting them about one inch apart, and, when weather permits, they should afterwards be planted in the open ground in the place where they are to flower.

TENDER ANNUALS should be sown in pots as follows: Take a five or six-inch flower pot, put an inch of drainage in the bottom, then two inches of finely-sifted soil, firmly pressed, with a sprinkling of sand on top. Then sow the seed, and do not cover, but press into the soil. Water with a very fine sprinkler, and cover the top of the pot with a sheet of glass. Remove the glass for an hour daily to dry up the damp. When seedlings appear, gradually harden them off to the air. As soon as they can be handled, transplant to two-inch pots, and shift again when necessary.

HARDY BIENNIALS and **PERENNIALS** should be sown in September. Many varieties, if sown then, will flower the next year. If sown in spring they will not flower till a year later. They may be sown in a shady border, and, when large enough, transplanted to where they are to remain.

HALF-HARDY and **TENDER PERENNIALS** should be sown in boxes, and treated as recommended for Half-hardy Annuals till plants appear, when they should be transplanted to two inch pots, and shifted afterwards when necessary.

We have arranged our list of flower seeds according to the various classes: Annuals, including separate lists of Everlasting Flowers and Ornamental Gourds; Climbers, Annual and Perennial; Biennials and Perennials; Ornamental Grasses, Annual and Perennial.

ABBREVIATIONS. Hh means Half-hardy, Annual or Perennial; T means Tender, Annual or Perennial. When no abbreviation is used, the variety will prove hardy in this climate. The letter B affixed to a variety means that it is useful for bouquets and cut flowers.

HINTS ON THE FORMATION OF LAWNS

Ask for Germain's free booklet "Lawns—Making and Proper Care."

See that the ground is well prepared. Dig or plow ground to the depth of 8 inches. Afterwards harrow or rake carefully, pulverize all lumps, and remove all large stones. If the soil is shallow, procure a supply of fine mold and spread over the surface to a depth of five inches. Soil may be enriched by bone meal or well-rotted manure wherever necessary; then rake level and roll the soil well to make a solid bottom. Scatter the seed evenly over the suface at the rate of 150 pounds to the acre (for Blue Grass), one pound to sixteen feet square. Rake seed in and roll, water regularly and carefully, as the soil is liable to dry out in the heat of the day, and if it does while the seed is germinating it will invariably perish. When the grass is three inches high it should be cut and rolled, and every week or so thereafter until the grass has become firm. Eradicate weeds whenever they appear, without disturbing the grass. Should bare spots appear, rake the surface and sow more seed. The roller should be used frequently during the season, and a dressing of lawn fertilizer once a year is necessary to the maintenance of a good lawn. Ask about NUVIDA Fertilizer.

LAWN GRASS SEED

Note—Prices on half pound and up to and including ten pound quantities include postage or expressage prepaid. When sent otherwise, deduct 10 cents per pound or fraction thereof. Prices listed for larger quantities, if desired sent by Parcels Post, necessary postage should be added. See our Parcels Post Schedule on page 1.

KENTUCKY BLUE GRASS—Premium Grade—is the finest grade of Blue Grass on the market. Grown from specially selected strains and in carefully selected fields, the seed gives the greatest satisfaction, due to its quality, purity and freedom from other seed. Per pound 70 cents, 10 pounds $6.50, postpaid.

WHITE CLOVER. Our seed is strictly first-class, absolutely clean and pure and of the highest quality. Per pound $1.25 10 pounds $11.50, postpaid.

AUSTRALIAN, OR PERENNIAL RYE GRASS. An extremely hardy sort, requiring less fertile soil and withstanding more hardships. Used extensively in Arizona and becoming very popular in Southern California. Per pound, 35 cents, 10 pounds $3.00, postpaid.

NOTE—We strongly recommend, in order to obtain a hardy and healthy lawn, that you use a mixture of Blue Grass and White Clover. Where there is no preference in the matter, we advise a mixture of two-thirds Blue Grass and one-third White Clover.

LAWN FERTILIZERS

50 pounds can be sent by Parcels Post.

NUVIDA LAWN AND GARDEN FERTILIZER is undoubtedly the best and most efficient fertilizer on the market. Ten pounds will cover 250 square feet.

Price 10 pounds 60 cents, 25 pounds $1.25, 50 pounds $2.25, 100 pounds $4.25.

FINE GROUND BONE MEAL. Good for top dressing and general fertilizing purposes. 5 pounds 35 cents, 25 pounds $1.25, 50 pounds $2.40, 100 pounds $4.50.

LIME CARBONATE. Admirably adapted to neutralize acidity and also to add fertility to the soil. Finely ground, easily applied, and immediately effective. In 80 pound sack only, at $1.25.

PULVERIZED SHEEP MANURE. This is specially prepared and carefully handled so that it possesses all of the elements of a high class fertilizer, free from weed seeds, and strong in plant food. Price 5 pounds 25 cents, 25 pounds 75 cents, 50 pounds $1.35, 100 pounds $2.50.

Some Magnificent New Seed Novelties for 1921

GERMAIN'S NEW GIANT FLOWERING COLUMBINES

Aside from the plants offered on page 98 of this catalog, we are pleased to be able to offer you this season seeds saved in separate colors, including the very finest types in the blue and pink shades, or we can supply them as all colors mixed.

This strain will produce an exceedingly high percentage of blooms absolutely true to type. Those of our customers who prefer to raise their plants from seeds will find this a very satisfactory and economical way to obtain the plants which they may require for their gardens. The seed has been saved with the greatest of care from the very finest long spurred types.

Germain's Selection of Blue Varieties includes all shades from the palest blue to richest indigo; blossoms long spurred and of immense size. Per packet, 25c.

Germain's Selection of Pink Varieties includes all shades from light pink to darkest rose. There is nothing better. Per packet, 25c.

Germain's Prize Mixed. Our special mixture includes all shades from pure white to pink, rose, red, yellow, crimson, blue with many of the flowers of handsome bi-color effect. There is no finer mixture of Columbines in existence. Per packet, 25c.

See page 111

The engraving herewith produced conveys a fair idea of an individual flower of Germain's new giant Aster "Peach Blossom." The reproduction shows the individual flower in a greatly reduced form. The field view as shown on the page following, shows a mass of the same type in full bloom. For descriptive matter see page 64.

GERMAIN'S ELDORADO POPPIES

These new poppies are an improvement on anything which has hitherto been introduced in the line of Shirley Poppies. They offer not only a much wider range of colors, but contain as well a distinctly new range of colors in the annual strain of Papaver Rhoeas. The blossoms are either single or semi-double. A few of the colors to be noted are wonderful shades of salmon, orange, satiny pink, peach blossom, orange-scarlet or handsomely bi-colored sorts, wherein the center of the flower is of one shade and the exterior of the petals another, as for example—a center of white with a rim of salmon or orange. A sowing of these poppies made in early Spring will produce a wonderful display of blooms during the months of April or May. As Poppies do not transplant readily, they should be sown in drills about one foot apart and the seed covered slightly with soil or merely raked in. When the plants appear above the surface or attain a height of one or two inches, they may be thinned to one foot apart in the row. It is useless for us by means of word picture to explain their beauty. A bed of them in bloom will speak for itself. Per packet, 25c.

GERMAIN'S NEW GIANT NON-LATERAL BRANCHING ASTERS

During the many years of our business, we have each season presented to our customers various novelties in choice flower seeds. These have ranged through all of the various annuals and perennials and included many meritorious subjects, but never before has it been our pleasure to introduce one of such outstanding merit as these superb new Asters. They are so distinct and so beautiful in their character that we unhesitatingly recommend them to our customers with confidence that they will not only please them, but all who may have the pleasure of seeing them. The plants are remarkable, not only for their giant height, attaining as they do a height of 3 feet and over, but for their superb and elegantly formed blossoms coupled with their mammoth size. A peculiar feature of this strain is that they are non-lateral branching, they produce few or no florets along the main stem, with the result that the entire sap flow is diverted to the terminal flower at the end of the stems. This accounts for the immense size and substance of bloom. The flowers may be cut with individual stems which reach a length of fully 3 feet or over. As cut flowers and as decorative plants in the garden, these new Asters will prove a pleasant surprise and give a vast amount of satisfaction to our customers.

New Giant Aster—Peach Blossom—The photograph shown on this page conveys but a very inaccurate idea of the size and beauty of this particular type. The blossoms attain a diameter of 5 inches, individual stems fully 2 feet long. The blossoms in the opening buds are almost white; as the flowers mature they turn to a beautiful flushed peach blossom pink. Per packet 50c.

New Giant Aster—Light Blue—A splendid companion to the foregoing variety, the shade of blue to be noted in the flower of this superb sort is one of the richest conceivable. Price per packet 50c.

New Giant Rose—An exquisite shade of rich dark rose; the flowers are composed of long, narrow, twisted and curling petals. Per packet 50c.

New Giant Purple—Deep rich purple, a telling shade well displayed in the enormous sized blossoms. Splendid in stem, form and substance. Per packet 50c.

New Giant Light Blue Curled—Distinct in every respect, from the light blue noted above—a variety which bears flowers up to 5 and 5½ inches in diameter. The blossoms instead of being cupped are similar in character to those in the preceding dark rose variety. Per packet 50c.

New Giant Asters Mixed—A well balanced mixture, including the above five varieties. Per packet 50c.

THE CALIFORNIA POPPY

Distinctly a native California flower, it has spread throughout the world on the strength of its beauty. In England and other European countries this wildflower has been grown to such an extent that it has become one of the favorites.

To Californians the flower is too well known to need much description but even they can come to know it better and to plant it more universally.

For beautifying and enhancing the value of a vacant lot, for cut flowers and for general decorative purposes it is more valuable than hundreds of others. Being a perennial it can be kept growing from year to year if only kept watered.

We are offering this year a new strain which is far more beautiful than any of the former varieties.

CANICULATA ROSEA. Fluted flowers of a bright rosy pink.
CRIMSON. Improved strain of carmine crimson.
FRINGED YELLOW. New type fringed petals.
IMPROVED MANDARIN. Inside petals orange, outside scarlet.
MIKADO. Orange crimson.
ROSY QUEEN. Rose pink.
MIXTURE. Rich in shades of crimson, pink, orange and scarlet.

All the above varieties per packet 25 cents. The full collection of seven packets $1.50.

For other varieties see page 90.

CHINESE WOOL-FLOWER

(Celosia Childsii)

The Chinese wool-flower is a new celosia, and a most magnificent garden annual and remarkable floral novelty. Plants grow two to three feet high, the blooms starting with a central head, round and globular, and often reaches the immense size of two feet in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool but not as large as the central one. All these branches support numerous laterals with small heads of bloom mixed with fresh green foliage, so that a plant looks like one immense bouquet. None of the blooms fade in any way, to partly spoil the looks of the plant, but they deepen in richness of color to a deep crimson. Sow the seed in a box protected from the direct sunshine. Cover them their own depth. Keep the earth moist and transplant to the open as soon as they are large enough to handle. Per packet 25 cents.

Some Magnificent New Seed Novelties for 1921

GERMAIN'S NEW GIANT PLUMED CELOSIAS

A lovely new class of feathered coxcombs of the Pyramadalis type. The plants attain a height of 3 feet and over and during the months of August, September and October are crowned with immense, gracefully feathered plumes. These are remarkable for their immense size as well as for their splendid range of colors. There is nothing that we know of more attractive or more showy for bedding than these splendid new giant types. Colors range from yellow to the various shades of rose, carmine, crimson, bronze, etc. There is a richness of effect about these plants that is distinct from all others. From seed sown in March beautiful specimens may be had in full flower by the time above noted. We can unhesitatingly recommend this grand new class to all of our customers. Per packet 50c.

GERMAIN'S IMPROVED NEW SINGLE GIANT PETUNIAS

Nearly everyone is familiar with the single superbissima type of Petunia, commonly referred to as "Giants of California," and while it is hard to realize that any improvement could be made, yet this new strain is far and away ahead of anything in the single Petunia line introduced to date. We have had individual blossoms that measured 6 inches in diameter. The petals are beautifully convoluted and frilled, and they contain a much wider range of colors than any strain of Petunias, elegant shades of lavender, crimson, carmine and copper are plentiful. Many of the blossoms are beautifully veined, others are blotched or striped. The well-known value of Petunias for Summer bedding and their ability to withstand our hot Summer suns and furnish a constant display of bloom throughout a protracted period should recommend them to every one. Price per packet 50c.

DIANTHUS

Improved Superbissimus—An exquisite new strain of single Dianthus, or Chinese Pinks, containing a wide variation in color and a unique formation in their flowers. The surface of the petals is beautifully ruffled, the edge of the petals deeply fringed, and many of the blossoms are beautifully zoned with scarlet, crimson, white, etc.; others are striped or blotched. The plants attain a height of about 12 inches. A bed in bloom presents a sight not easily forgotten. Price per packet 25c.

Some Magnificent New Seed Novelties for 1921

NEW ANEMONE FLOWERED DAHLIAS

The general tendency in growers of fine Dahlias has been to see how large the flowers could be developed. In this new strain an absolutely new type is shown, wherein the flowers are quite small but possess a daintiness and beauty not found in any of the larger class. The blossom shown in the photograph conveys a good impression as to their general character and form. The center petals are of a cushion-like effect, similar to that to be seen in the Marguerite Mrs. Sander, or in a large flowered Scabious. The ray petals are broad and are often of a distinct color to the center of the flower, presenting a highly contrasting effect. A feature of these new Dahlias is the fact that they can be reproduced almost 80 per cent true from seed. The plants are dwarf in habit and the blossoms are borne well above the foliage on strong wiry stems. The color variations to be seen are very marked, ranging from purest white, through the various shades of orange, pink, bronze, carmine, yellow, crimson, etc. The effect of a vase of these flowers is very telling indeed, and there is nothing in the Dahlia line to approach them for brilliancy of color. They are splendid for cut flowers. Price per packet 50c.

BEGONIA TUBEROUS-ROOTED

Bulbs of these beautiful flowers are under the quarantine restrictions and can no more be imported into this country. We are offering a wonderful mixture of these flowering bulbs in seed. They can be started in boxes, potted off, and will make a small bulb the first season and wonderful summer flowers the second season. The finest flowers for shady and half-shady places for which flowers are so much in demand. Will flower from June to November.

Single Mixed, 50c per packet.
Double Mixed, 50c per packet.
Single Fringed, 50c per packet.

CALENDULA "ORANGE KING"

Double, dark orange-red, select strain, grown with the greatest of care, and with good cultivation will produce flowers four inches and over in diameter. Height, eighteen inches. Price, 10c per packet.

CALENDULA "LEMON QUEEN"

Double, bright sunflower yellow. This variety is equally as popular as "Orange King" as the blooms are fully as large. Height, eighteen inches. Price, 10c per packet.

CINERARIA GIANT HYBRIDS GRANDIFLORA VARIETIES

We have succeeded this season in obtaining a wonderful line of Grandiflora Hybrid Cineraria seed in a variety of colors. Our mixture contains every shade obtainable. The flowers are of mammoth size borne on plants of compact habit. A potted plant of these beautiful flowers for the conservatory or house decoration is charming.

Sow in boxes and transplant.

Azure Blue	Old Rose
Blood Red	Rich Crimson
Dark Blue	White
Deep Scarlet	Dark Blue with White
Flesh	Dark Red with White

Per packet, separate colors, 50c each.

Mixture of all the above, 50c per packet. For winter flowers, sow from May to September.

LARKSPUR "EXQUISITE"

Charming new double Larkspur of a beautiful soft pink, the shade that is highly desired by all lovers of flowers. Price, per packet, 25c.

POPPY RYBURGH HYBRIDS

Double Shirley select new strain. Mixed colors, 25c per packet. Eldorado, new Salmon shades, 25c per packet.

SCHIZANTHUS (BUTTERFLY FLOWER)

"Garaway's Hybrids." A splendid new strain with large blooms producing an endless variety of color. Price, per packet, 25c.

STOCKS—WINTER FLOWERING

A remarkable percentage come double and they are worthy of culture in any garden.

Crimson	Rose
Flesh	Salmon
Lavender	White
Purple	Yellow

Germain's collection of eight varieties for 75c. A wonderful type of imported stocks.

ZINNIA VICTORY
Quilled Type

This is a distinct strain of Zinnia. The flowers are large and the petals evenly quilled in different shades of color, such as bronze, cerise, yellow and white. Many of the petals are reflexed, showing a different color on the inside, giving the flowers the appearance of a bicolor. Mixed colors per packet, 25 cents.

ANNUALS

Our Selection Twelve fine varieties of Annual Flower Seeds, $1.00. **Our Selection Six Fine Varieties of Annual Flower Seeds, 50c.**

The quickest and cheapest way of making a good display of color in the garden is by sowing annuals. But to sow them thickly as is frequently done and then leave the little plants alone to fight for a position—eventually running straight up, flowering once and then dying—is not the right way to treat them. Each plant must have room to develop its branches as they are produced, and in order to obtain this, they must be thinned severely and often, so that each stands at from 6 inches to 1 foot apart, according to the kind sown. Some, as noted under the separate headings, are better sown in boxes or pots and transplanted. Others do well sown where they are to flower. But in all cases, prepare the ground well by deeply spading and incorporating, as the work proceeds, good, well prepared manure. If natural manures cannot be obtained, we have the best commercial fertilizers always in stock, and these are equally effective. But give the plants room to develop, allow plenty of moisture, and the display that these pretty plants make will delight and surprise the grower.

All 10 cent packets at $1.00 dozen; 15 cent packets $1.50 dozen; 25 cent packets $2.50 dozen.

COLLECTIONS

ONE PACKET OF EACH OF THE HARDY ANNUALS LISTED BELOW FOR $1.50. REGULAR VALUE $2.10

ALYSSUM SWEET. White, height ¾ ft.
ARCTOTIS GRANDIS. White with blue disc, height 2 ft.
BALSAM (Lady's Slipper). Height 2 ft.
CALENDULA (Prince of Orange). Brilliant Orange, height ¾ ft.
CANDYTUFT. Pink, height 1 ft.
CANDYTUFT. Empress white, height 1 ft.
CENTAUREA IMPERIALIS. Finest mixed, height 2 ft.
CHRYSANTHEMUM. Choice mixture, height 2 ft.
CALIFORNIA POPPY. Golden yellow, height 1 ft.
CORN FLOWER (Ragged Sailor). Blue, height 2 ft.
GODETIA. Extra fine mixed, height 1½ ft.
GYPSOPHILA ELEGANS. Very graceful for bouquets, height 1½ ft.
LAVATERA TRIMESTRIS. Rose color, height 2½ ft.
LINUM (Scarlet Flax). Beautiful Crimson Scarlet, height 1 ft.
MARIGOLD FRENCH. Mixed beautiful bronzed and yellow shades, height 1 ft.
MIGNONETTE. All sorts mixed, height 1 ft.
NASTURTIUM TOM THUMB. Finest mixed, height 1 ft.
PHLOX. Finest mixed, height 2 ft.
POPPY. Mixed all sorts, height 2 ft.
SCABIOSA (Morning Bride). Finest mixed, height 2 ft.
ZINNIA (Youth and Old Age). Mammoth mixed.

ABRONIA

ABRONIA UMBELLATA (Sand Verbena). Delicate rose. Beautiful native trailer. Height ¼ ft. ..... Pkt. $0.10

ADONIS

ADONIS FLOS (Pheasant's Eye). Crimson, with black eye. A beautiful showy, free-flowering plant. Hgt. 1 ft.. .10

AGERATUM

AGERATUM MEXICANUM. Fine for bedding or mixed borders.
Imperial Dwarf Blue. Height ¾ ft. ..... .10
Imperial Dwarf White. Height ¾ ft. ..... .10

ALYSSUM COMPACTUM

ALYSSUM

Fragrant and pretty. Nothing better for borders or parkways. Sow thinly at any time of the year and thin the plants to 3 inches apart.

Pkt.
Compactum. Dwarf, White. Height ⅓ ft. $0.10
Lilacinum. Pure lilac, fine for borders ..... .25
Sweet. White. Height ¾ ft. ..... .10

AMARANTHUS

Hh. The Amaranthus are splendid plants to give a tropical effect in mixed borders and shrubbery. Plant in sunny places and poor soil.

Melancholicus (Ruber). Blood-red. Height 1 ft. ..... .10
Salicifolius (Fountain Plant). Purple, crimson and gold. Height 3 ft. ..... .10
Tricolor (Joseph's Coat). Red, green and yellow. Height 1 ft. ..... .10

ANAGALLIS

ANAGALLIS (Pimpernel). Mixed various colors. Free-blooming, attractive plant for borders. Height ½ ft.. .10

ARCTOTIS

This plant is not sufficiently grown. The beautiful flowers have a steely blue sheen, reflected from the back of the petals that gives them a delightful and unique appearance which no other composite possesses. It is one of the finest annuals for cutting. Try it this season. Sow early in order to get large plants and sheaves of flowers.

ARCTOSIS GRANDIS

ARCTOTIS GRANDIS. Plants are of easy culture, flower abundantly from early summer till fall. Height 2 to 2½ ft. ..... Pkt. $0.10

ARGEMONE

ARGEMONE (Mexican Poppy). Mixed, white and yellow. Very showy. Height 2 ft. ..... .10

ARNEBIA

ARNEBIA CORNUTA (Arabian Primrose). B. Yellow, spotted with black or maroon. Height 1¼ ft. ..... .15

ASTERS

GERMAIN'S GIANT COMET BRANCHING ASTERS

GERMAIN'S GIANT COMET BRANCHING ASTERS

Even with the most expensive reproduction process it is difficult to convey the real beauty of the splendid development of the good old Aster. The iridescent coloring of these great chrysanthemum-like flowers nearly as large as a saucer, with beautiful curved petals, makes a brilliant display in the garden, and the fact that they will keep well as cut flowers for a week or ten days is especially appealing to the busy housewife. The Giant Comet and American Branching varieties are the favorites among florists. The plants grow to a height of about 2 feet, are of full foliage and droop just enough for a graceful appearance. Planted from February to May, the Aster will furnish a continuous reward of gorgeous bloom from July to October. It grows easily, likes sunshine and a moderate amount of water.

GIANT COMET BRANCHING

	Pkt.		Pkt.
Crimson. Height 2 ft.	$0.25	Rose. Height 2 ft.	.25
Flesh. Height 2 ft.	.25	Shrimp Pink	.25
Lavender. Height 2 ft.	.25	White. Height 2 ft.	.25
Purple	.25	Mixed. Height 2 ft.	.15

Your Selection of Six from this Collection, $1.00
Full Collection, $1.25

OTHER VARIETIES

AMERICAN BEAUTY. (New) **Long-stemmed, Branching variety.**

	Pkt.
Flesh	$0.25
Lavende	.25
Purple	.25
Rose	.25

See Specialty Page 65.

AMERICAN BRANCHING.

Crimson. Height 1½ ft	$0.10
Flesh-pink. Height 1½ ft	.10
Lavender. Height 1½ ft	.10
Purple. Height 1½ ft	.10
Rose-pink. Height 1½ ft	.10
White. Height 1½ ft	.10
Mixed. Height 1½ ft	.10

BRANCHING KING. (New) Magnificent, numerous flowers. Peculiar formation of petals make flowers very effective.

Violet	.25

BOCARDEAU, or CROWN. White centers, mixed white. Height 1½ ft. .10

DWARF CHRYSANTHEMUM FLOWERED. Mixed, 1 ft. .10

ANNUALS

BALSAM

Good for flower beds, for mixed borders or for pots in the window garden or green-house. There is nothing that quite takes the place of the Balsam, as it is distinct from everything else in cultivation. Sow in February or March for use inside and in April in the open ground. Our strains are the finest s eections from European and home grown varieties and cannot lbeexcelled.

	Pkt.
Double Rose-Flowered. Mixed. Height 2 ft	$0.10
Camella-flowered. Mixed. Height 2 ft	.10
Dwarf. Mixed. Height 1 ft	.10
Carnation-striped. Mixed. Height 2 ft	.10
Solferino. White, lilac and scarlet. Height 2 ft	.10

BARTONIA

BARTONIA AUREA. Yellow. Height 1 ft ..... .10

BRACHYCOME

This is a dwarf and profuse flowering annual, fine for cutting. Sow it in a sunny position and cut flowers every day for three months. Known also as the Swan River Daisy.

BRACHYCOME IBERIDIFOLIA Cineraria-likeflowers. Native of Western Australia. Mixed. Height 1 ft ..... .10

BROWALLIA

BROWALLIA ELATA. Hh. Mixed. Height 1½ ft ..... .10

CACALIA

CACALIA COCCINEA (Flora's Paint Brush). B. Scarlet. Height ½ ft ..... .10

CALANDRINIA

CALANDRINIA UMBELLATA. Portulaca-like plants, fond of sunshine, well-suited for rock-work. Vivid crimson. Height ¼ ft ..... .10

CALCEOLARIA

The splendid hybrids of Calceolaria that have been raised by European specialists, are among the finest pot plants in existtnce. These most not be confounded with the old yellow and erown varieties used for bedding. Our strain is absolutely the bnest obtainable. Sow at intervals from June to August and fireat as advised for Cinerarias.

	Pkt.
CALCEOLARIA HYBRIDA SUPERBA. T. Beautifully blotched, mottled and striped. Height 1½ ft	$0.50

CALENDULA

	Pkt.
CALENDULA OFFICINALIS (Pot Marigold). Easy culture.	
Lemon Queen	$0.10
Meteor. Yellow striped and bordered orange, height 1½ft	.10
Orange King	.10
Prince of Orange. Height ¾ ft	.10

CALIFORNIA POPPY

(Eschscholtzia) See page 66.

CALLIOPSIS

If the varieties of Calliopsis were rare and high priced, people would rave about their beauty, but as they are so cheap and easily grown, they are often passed by unnoticed. The lovely combinations of yellow and brown are not excelled in any other plant and they have an elegance and grace all their own. Sow at any time of the year and in any position or soil.

	Pkt.
Bicolor	$0.10
Crimson King, dark crimson	.10
Golden Wave	.10
Mixed	.10

CENTAUREA

Everyone knows and likes the old fashioned "Sweet Sultans". Known also as Bachelor's Buttons, Blue Bottle, Ragged Sailor, Bluet and Ragged Robbin. In a variety of colors, they are great favorites of the florists, and they are also fine for the home garden, treated like any hardy annual. While they do fairly well in poor soil, no plant responds better to liberal treatment. The common Cornflower, Centaurea Cyanus, is decidedly the finest of all blue flowered annuals and a favorite wherever grown. Too good to miss and of the easiest possible culture. Sow anywhere at any time.

	Pkt.
CENTAUREA CYANUS.	
Emperor William. Sky-blue. Height 2 ft	$0.10
Double bright blue. Height 2 ft	.10
Pink. Height 2 ft	.10
White. Height 2 ft	.10
Mixed. Height 2 ft	.10
CENTAUREA IMPERALIS is an improvement on the old-fashioned "Sweet Sultan; height 2 ft.	
Brilliant Rose	.10
Chameleon. Flowers similar in shape to C. Marguerite, but varying in color from light yellow or straw-color to pink and yellow, or light rose. Height 1½ ft	.10
Lavender	.10
Purple	.10
White	.10
Mixed	.10
CENTAUREAS, (Other Varieties)	
Americana, (Basket Flower) Immense thistle-like blooms of rosy lavender color, very showy. Hgt. 3 ft.	.10
Moschata, White	.10
Suaveolens, Yellow	.10

ANNUALS

CANDYTUFT

Fine plant for cutting. Good for massing or bedding and an easily grown, free flowering subject. The newer varieties are not to be compared with the older small flowering kinds, beautiful as these undoubtedly are, and no garden is complete without some at least.

	Pkt.
Carter's Carmine. Height 1 ft.	$0.10
Empress. White. Height 1 ft.	.10
Little Prince. White. Height ½ ft.	.10
Pink	.10
Purple. Height 1 ft.	.10
White. Height ¾ ft.	.10
White, Giant Hyacinth	.10
Fine Mixed. All colors. Height 1 ft.	.10

CATCHFLY

See Silene Armeria, page 75.

CELOSIA

This is the botanical name of the well-known cox-comb or Prince's Feather. The former, C. cristata, is a stiff, formal plant, bearing immense "combs" of brilliant colors. The latter, C. pyramidalis, is more graceful and equally bright. Raise the seeds in a gentle heat if possible in early spring and extra large plants will result. Any kind of soil suits them and plenty of sun.

	Pkt
Cristata Empress. Dwarf, crimson, splendid. Height ¾ ft.	$0.15
Glasgow Prize. Crimson. Height 1 ft.	.15
Finest Mixed. Height ¾ to 1 ft.	.10
Pyramidalis. Mixed. Height 2 ft.	.10
Chinese Wool-Flower (Celosia Childsi) See page 66	.25

CENTRANTHUS

CENTRANTHUS. B. Mixed, various colors. Showy annuals, with valerian-like flowers. Height 1 ft. .10

CHRYSANTHEMUM

The annual Chrysanthemums must not be confounded with the autumn flowering Chrysanthemum or Pyrethrum Sinense of botanists. They are showy, effective plants of the easiest possible culture, requiring only to be sown in the position where they are to flower and thinned to 9 inches apart. They make a fine display all the summer. Morning Star is a particularly attractive pale yellow.

	Pkt.
Tricolor album. White. Height 2 ft.	$0.10
Burridgeanum. White, with crimson ring. Height 2 ft.	.10
W. E. Gladstone. Rich crimson. Height 2 ft.	.10
Coronarium. Double White. Height 2 ft.	.10
Double yellow. Height 2 ft.	.10
Morning Star. New beautiful pale yellow flowers, fine for cutting	.10
Double Mixed. Various colors. Height 2 ft.	.10

CINERARIA

Although in this favored southland, the Cineraria thrives outdoors in semi-shaded positions, it is as a greenhouse or window plant it is best known. Continental hybridists have been for years working on this flower and we annually add the best from these raisers to our own well known strain. Our seed plants are raised under the strictest surveillance of experts who are quick to note anything not up to the high standard set. The Cineraria dislikes heat at any time and must be always in a cool, moist atmosphere with plenty of air. Green fly or aphis is its worst insect enemy and must be destroyed on sight by light fumigation or dipping in one of the nicotine preparations sold by us. Sow at various times from May to August for winter and spring flowering.

CINERARIA GRANDIFLORA HYBRIDS

	Pkt.
Antique Rose	$0.50
Lustrous Red	.50
Royal Blue	.50
Sky Blue	.50
Mixed	.50
CINERARIA HYBRIDS, mixed	.25

CLARKIA

Fine Mixed. All kinds. Height 1½ ft.	.10
Clarkia Collection of 6 varieties	.40
Double Rose	.10
Firefly	.10
Purple King	.10
Salmon Queen	.10
Sutton's Delicate Pink	.10
Vesuvius	.10

CLINTONIA

CLINTONIA PULCHELLA. Pretty for rock work. Blue, white and yellow. Height ½ ft. .10

COLLINSIA

COLLINSIA BICOLOR. Purple and white. Height 1 ft. .10

CONVOLVULUS

CONVOLVULUS MINOR (Dwarf Morning-glory). Mixed colors. Height 1 ft. .10

CORNFLOWER

(See Centaurea.)

COSMIDIUM

COSMIDIUM BURRIDGEANUM. B. Resembles Calliopsis. Maroon and yellow. Height 2 ft. .10

COSMOS

Cosmos is one of the most popular flowers for table decoration. The Mammoth varieties keep up a succession of bloom for a long period, and as they are fall flowers it is almost impossible to have flowers of the late variety in early spring. The early varieties can be had in bloom in early spring by fall sowing. They grow about 3 ft. high and are also invaluable for mixed borders.

COSMOS

	Pkt.
Double Pink, white and mixed	$0.25
Mammoth Perfection. Crimson, pink, yellow, white and mixed. Height 4 ft.	.10
Lady Lenox. A delightful shell-pink, 4 to 5 inches diameter. Height 4 ft.	.10
Lady Lenox. White. Height 4 ft.	.10
Germain's Early Flowering. Rose, white and mixed. Height 3 ft.	.10

DATURA

DATURA HUBERIANA. Hh. Double Mixed. Height 3 ft. .10

DIMORPHOTHECA

Exactly suited to the climate of Southern California, the yellow African Daisy is a showy, beautiful dwarf annual, with orange yellow flowers, much more easily and quickly grown than the Gazania, so much used for parkings and narrow borders. A gem that should be in all gardens.

	Pkt.
Dimorphotheca Aurantiaca	$0.10
Hybrids, Mixed	.10

ESCHSCHOLTZIA

ESCHSCHOLTZIA (California Poppy). See page 66.

EUTOCA

EUTOCA. Mixed. B. Various colors. Height ft. .10

FENZLIA

FENZLIA DIANTHIFLORA. Pink and white. Height ft. .15

GAURA

GAURA LINDHEIMERI. Rosy white. Fine for masses or mixed borders. Height 3 ft. .10

GILLIA

Tricolor. Violet, Yellow and White. Height 1 ft.	.10
Dwarf Sorts. Mixed. Height ft.	.10

ANNUALS

GODETIA

Native to the State of California, this annual has been improved out of all knowledge of the earlier botanists. The colors are exquisite and the texture of the flowers silky and attractive in the extreme. The varieties are not nearly as well known as they deserve. Sow where they are to flower. Pkt.

Apple Blossom. Dwarf pink and white $0.10
Crimson King. Glowing crimson ..... .10
Duchess of Albany. Large white. Height 1 ft ..... .10
Gloriosa. Dark blood-red with satin luster. H'ght ¾ ft ..... .10
Lady Albemarle. Dark crimson. Height 1½ ft ..... .10
The Bride. Crimson and white. Height 1 ft ..... .10
Finest Mixed. Height 1½ ft ..... .10

GYPSOPHILA

We sell large quantities of this pretty annual to florists who grow it for mixing with Sweet Peas and other flowers. It thrives in any garden soil and flowers freely in a much shorter time than is needed to perfect the old perennial kind. Sow at intervals where the plants are to flower. Any position or exposure suits it. Pkt.

Gypsophila Grand'flora Elegans. B. Pure white. Very graceful. Height 1½ ft. See also Perennials $0.10
Rosea. Height 1½ ft ..... .10

HELIANTHUS

Ornamental double varieties of the well known Sunflower. Good for backgrounds. Pkt.

Californicus. Double. Height 6 ft ..... .10
Cucumerifolius. "Stella." Single golden yellow with black center. Height 3½ ft ..... .10
Globosus fistulosus. Double quilled. Height 6 ft ..... .10
Nanus. Dwarf; double. Height 3 ft ..... .10
Sulton's Red ..... .25

HIBISCUS

HIBISCUS AFRICANUS. Yellow, with dark center. Height 2 ft. See also Perennials ..... .10

ICE PLANT

ICE PLANT (Mesembryanthemum crystallinum). White. Trailer ..... .10

KAULFUSSIA

KAULFUSSIA AMELLOIDES (Cape Marguerite). B. Mixed. Height 1 ft ..... .10

KOCHIA

The Summer Cypress is not so well known in California as in the East, where it is freely used for a hedge around gardens or to divide lots. The plant makes a globular head that in summer is green and in the fall turns to a deep red, which is most attractive. Very easily grown. Pkt.

KOCHIA (Summer Cypress) $0.10

LARKSPUR

The annual Larkspurs, though not so majestic looking as the perennial or herbaceous kinds, are among the prettiest of easily grown garden plants. They grow about 2 feet high and are favorites everywhere. Pkt.

Dwarf Rocket. Mixed. Height 2 ft $0.10
Emperor. Azure Blue. Height 2½ ft ..... .10
Rose. Height 2½ ft ..... .10
Tall Stock-flowered. Mixed. Height 2½ ft ..... .10

LAVATERA

LAVATERA TRIMESTRIS. Red. Height 2½ ft $0.10

LIMNANTHES

LIMNANTHES DOUGLASII. Sometimes called Yellow Nemophilia. Yellow. Height 1-3 ft ..... .10

LINUM

LINUM GRANDIFLORUM RUBRUM (Crimson Flax). Crimson. Unsurpassed for brilliancy and duration of bloom. Height 1 ft ..... .10

LOBELIA

Everyone knows the blue Lobelia, formerly used so much for ribbon borders, but now more in favor for hanging baskets or pots. Dwarf and free flowering. The seed is extremely fine and must not be covered deeply. See also Perennials. Pkt.

Erinus erecta Gracilis Blue. Height ½ ft $0.10
Crystal Palace Compacts. Dark blue. Height 1-3 ft ..... .10
Emperor William. Light blue. Compact. Height 1-3 ft ..... .10
Hamburgia. Blue Trailing ..... .10

LOVE-LIES-BLEEDING

LOVE-LIES-BLEEDING (Amaranthus caudatus). Crimson. Height 2 ft ..... .10

LUPINUS

See also Perennials.

Mixed Annual Varieties. B. Height 2 to 3 ft ..... .10
Nanus. Dwarf, blue. Height ½ ft ..... .10

MALOPE

MALOPE GRANDIFLORA PURPUREA. Reddish purple. Height 2 ft ..... .10

MARIGOLD

Favorite showy plants for mixed borders. See also Calendula.

AFRICAN MARIGOLD

CULTURE—Marigolds are hardy annuals and old favorites in our gardens. They are all showy, especially in masses. Sow the seed broadcast, or in rows in well spaded and finely prepared soil, covering not more than one-eighth inch deep, and thin out to 6 or 10 inches apart. Pkt.

African. Lemon-colored. Height 2 ft $0.10
Orange. Height 2 ft ..... .10
Lemon Queen ..... .15
Orange Ball ..... .15
Mixed. Height 2 ft ..... .10
French. Mixed. Height 1 ft ..... .10
French Dwarf Orange. Height 1 ft ..... .10
Dwarf Striped. Height 1 ft ..... .10
Legion of Honor. Golden Yellow, marked with velvety brown. Height ¾ ft ..... .10

MATHIOLA

Mathiola bicornis, or the Night Scented Stock, is a delightful little plant for edgings or small borders. No one who grows it once, cares to be without it afterwards. Pkt.

MATHIOLA BICORNIS Purple; fragrant. Height ½ ft. $0.10

MESEMBRYANTHEMUM

MESEMBRYANTHEMUM TRICOLOR (Dew Plant). For edge or rockwork. Purple, rose and white. Trailer ..... .10

ANNUALS

MIGNONETTE

MIGNONETTE

CULTURE—This well known plant, is in fact a small annual shrub and grows wild on the sandy shore of Algiers. The name Mignonette is French and stands for "Little Darling." No garden should be without this sweet little plant. Sow in any good garden soil, deeply spaded, covering the seed its own depth and keeping moist.

	Pkt.
Mignonette, Sweet. B. Greenish white. Height ½ ft.	$0.10
Allen's Defiance. The best variety for forcing. Height 1 ft.	.10
Golden Queen. Height 1 ft.	.10
Goliath. Strong, compact habit, foliage rich green, giant trusses of flowers, stiff stalks, surpassing all others in brilliancy of color	.15
Machet, Giant. Fine for pot culture. Height 1 ft.	.10
Machet (new). Mammoth white	.25
Parson's. White. Fine long spikes. Height 1 ft.	.10
Ruby. Very floriferous	.10
Victoria. Red; very fine. Height 1 ft.	.10
Mixed	.10

The 10 cent varieties are extra fine.

NEMOPHILA

(Love Grove). Charming California annuals for borders.

Insignis (Baby Blue Eyes). Beautiful sky blue. Height ½ ft.	.10
Maculata. Large, white with purple blotch. Height ½ ft.	.10
Fine Mixed. Height ½ ft.	.10

NICOTIANA

Affinis (Ornamental Tobacco). White and fragrant. Height 3 ft.	.10
Sanderae. Pink. Large flowering hybrids, very showy, profuse bloomer, easily raised from seed	.10
Mixed. All colors	.10

NIGELLA

(Love-in-a-Mist or Devil-in-the-bush). B. Singular flowers, the upper petals being reflexed to resemble horns.

Damascena Double. Lavender-blue. Height 1 ft.	.10

NASTURTIUM

Singularly suitable for growing on poor sandy soils where few things thrive. The dwarf kinds will make a glorious display on a sand bank or any comparatively useless patch of soil, while the climbing or vining varieties run a wild riot over anything unsightly in the garden or are good for temporary summer shade on porches and verandas. Beside the showy blossoms, the foliage makes a piquant salad much liked by many people, while the seeds, if gathered green, are fine for pickling. A plant of so many points can hardly fail to be popular. Sow the seed an inch deep, where the plants are to remain, as it is not an easy subject to transplant.

NASTURTIUM, TOM THUMB. (See also Climbing List.)

	Pkt.
Aurora (Terra-cotta). Height 1 ft.	$0.10
Bronze. Distinct golden bronze. Height 1 ft.	.10
Chameleon. A fine variety producing different flowers on the same plant. Height 1 ft.	.10
Cloth of Gold. Light scarlet, yellow foliage. Height 1 ft.	.10
Empress of India. Dark leaves and crimson flowers. Height ¾ ft.	.10
Golden King. Dark foliage. Height 1 ft.	.10
King of Tom Thumbs. Dark foliage, scarlet flowers. Height 1 ft.	.10
King Theodore. Nearly black. Height 1 ft.	.10
Ladybird. Orange-yellow, red spots. Height 1 ft.	.10
Lilliput. A new and distinct class, in every respect smaller than the Tom Thumbs. Flowers of various colors. Height ½ ft.	.10
Pearl. White. Height 1 ft.	.10
Regalianum. Purplish violet. Height 1 ft.	.10
Rose	.10
Ruby King. Light ruby-red. Height 1 ft.	.10
Scarlet. Height 1 ft.	.10
Yellow. Height 1 ft.	.10
Finest Mixed. Height 1 ft.	.10

NASTURTIUM—TOM THUMB

NEMESIA

	Pkt.
NEMESIA GRANDIFLORA STRUMOSA. Mixed. Sow in March in boxes or seed bed and transplant 6 inches apart each way. Height 6 inches	$0.25

NOLANA

NOLANA. Fine Mixed. Trailer	.10

PANSY

(See page 87)

PERILLA

PERILLA NANKINESIS. Hh. Very dark leaves. Height 1½ ft.	.10

Dutch Bulbs Afford the richest field for beautiful decorative effects for the least labor. Any woman will enjoy the care of these aristocratic plants and revel in the beauty of the waxy flowers and richness of perfume. We are the largest importers in the West. Special Bulb Catalog is usually ready about October first. Write for it.

ANNUALS

PHLOX

CULTURE—Phlox is an extensive and interesting genus of invaluable hardy annuals, producing fine clusters of flowers in a variety of colors which includes white, pink, rose, purple, scarlet and a near approach to yellow. Some of the scarlets have pure white eyes and each year new varieties are added to the list. The only treatment required is to sow the seed where the plants are wanted to grow, and for perfection of flowers, thin out to one foot apart each way.

ONE OF OUR FIELDS OF PHLOX

PHLOX DRUMMONDII. Showy bedding plants.	Pkt.
Bright Scarlet. Height 1 ft	$0.10
Pink. Height 1 ft	.10
Red, with white eye. Height 1 ft	.10
Rose, Striped White. Height 1 ft	.10
White. Height 1 ft	.10
Yellow. Height 1 ft	.15
Fine Mixed. Height 1 ft	.10
Large-flowering. Fine mixed. Height 1 ft	.15
Very Dwarf, Fireball. Brilliant scarlet. Height ½ ft	.10
Very Dwarf, Extra Fine Mixed. Height ½ ft	.10
Cuspidata (Star Phlox). Mixed. Height 1 ft	.10

PLATYSTEMON

PLATYSTEMON CALIFORNICUS (Cream Cups). Yellow. Height 1 ft	.10

PORTULACA

For exhibiting a display of dazzling brilliancy the Portulaca is unrivalled. It revels in sunshine, and will stand quite a degree of drought.

CULTURE—The Portulaca may well claim a prominent place in our garden. A large bed or border presents a gay appearance of dazzling brilliancy. They are best sown in February and March, as they grow with great rapidity in warm weather. Sow the seed very shallow in a sunny situation. Keep moist but never over water. See picture opposite column.

Single. Crimson. Height ½ ft	.10
" **Scarlet.** Height ½ ft	.10
" **White.** Height ½ ft	.10
" **Yellow.** Height ½ ft	.10
" **Mixed.** Height ½ ft	.10
Double. Golden. Height ½ ft	.10
" **Pink.** Height ½ ft	.10
" **Scarlet.** Height ½ ft	.10
" **White.** Height ½ ft	.10
" **Mixed.** Height ½ ft	.10

POPPY

CULTURE—There can be no stronger and better proof of the beauty of this flower than the extent to which the varieties are grown. No other flower will produce such gorgeous brilliancy for bedding purposes. Sow the seed in beds where it is required, as it does not transplant easily. Cover it its own depth. Keep moist and thin out to six or eight inches apart.

Admiral. Single white, edged red	$0.10
Carnation. Double white. Height 2 to 3 ft	.10
Carnation. Double mixed. Height 2 to 3 ft	.10
Danebrog. Scarlet, blotched white. Height 2 ft	.10
French, or Ranunculus-flowered. Mixed. Height 2 ft	.10
Mikado. White and crimson, double-fringed. Hgt. 2 ft.	.10
Miss Sherwood. The flowers are from 4 to 5 inches across, pure satiny white, tinged with chamois-rose.	.10
Peony-flowered Fine Mixed. Height 2 to 3 ft	.10
Shirley, Santa Rosa Strain. The best and most varied strain in existence	.10
Shirley, Mixed. A distinct race, fine. Hgt. 2 ft	.10
Tulip (Papaver glaucum) Scarlet. Hgt. 1¼ ft	.10
Umbrosum. Scarlet-crimson. Height 1½ ft	.10

See also list of Perennials.

ANNUALS

RICINUS

Cambodgensis. (Ornamental Castor Beans). Leaves and stems nearly black; very fine. Height 5 ft..... .10
Sanguineus. Blood-red foliage. Height 6 ft..... .10

SALPIGLOSSIS

(Painted Tongue)

SALPIGLOSSIS GRANDIFLORA

Not one amateur gardener in a hundred knows this splendid annual, one of the most magnificent of all. The throat of the flower is beautifully lined and marked with rich velvety tints like an exquisite Gloxinia, but the plants are so free flowering that armsful of blossoms can be gathered daily from a small bed or border. They are graceful and exquisite, especially suitable for table decoration. Sow thinly where they are to bloom and thin to 1 foot on poor soil and 18 inches on good. Try them this season. They like plenty of sun, which does not spoil the color as in some other flowers.

SALPIGLOSSIS GRANDIFLORA. Pkt
Finest Tall Mixed. Height 1½ ft..... $0.10
Brown with gold. Height 1½ ft..... .10
Light blue. Height 1½ ft..... .10
Scarlet. Height 1½ ft..... .10
Violet. Height 1½ ft..... .10

SANVITALIA

Profuse-blooming trailing plants for beds, rockwork, etc. Sometimes called Trailing Sunflower.
Double Yellow. Trailer..... .10
Procumbens. Single Yellow. Trailer..... .10

SAPONARIA

SAPONARIA CALABRICA (The Calabrian Pink or Soapwort). Pink. Height ½ ft..... .10

SILENE

Used as a carpeting for bulbous plants in spring. There is no other annual plant so effective as Silene pendula compacta for this purpose. Sow in August or September. For summer blooming, sow in March. Pkt.
Armeria, Catchfly..... .10
Compacta. Double red. Height ¾ ft..... $0.10
Pendula compacta. Red. Height ¾ ft..... .10

SCABIOSA

(Mourning Bride or Pin Cushion Flower)

CULTURE—No "old fashioned" flower bed is complete without this sweet and dignified flower; and alone it is a worthy addition to any garden. Free blooming, hardy double annual. It succeeds in any ordinary garden soil. Handsome flowers and fine for cutting. Sweet scented. An excellent border plant. Sow the seed ⅛ inch deep, keep moist, never water so much that soil becomes soggy.

SCABIOSA

Pkt.
Azure Fairy. Delicate lavender. Height 2 ft..... $0.10
Flesh. Height 2 ft..... .10
Rose. Height 2 ft..... .10
White. Height 2 ft..... .10
Mixed. Height 2 ft..... .10
Dwarf, Mixed. Height 1 ft..... .10

SCHIZANTHUS

The Schizanthus has been greatly improved by selection and hybridizing in recent years, and when gardeners awake to its many merits, it will increase rapidly in popularity. Not only are the flowers bright and telling, but the foliage is deeply cut and serrated like a fern, each plant forming as it were, a complete bouquet. It has been aptly termed the "Poor man's Orchid" as it closely resembles some of these aristocratic flowers. Sow in pots or boxes and transplant to good soil in the open, from February to May. Also fine for pot culture in the greenhouse.

Pkt.
Pinnatus. Blue. Height 1½ ft..... $0.10
Finest Mixed. Height 1½ ft..... .10
Wisetonensis Hybrids Mixed..... .10

SUNFLOWER

(See Helianthus.)

SWEET SULTAN

(See Centaurea.)

SWEET PEAS

See pages 79 and 80.

TAGETES

TAGETES SIGNATA PUMILA. Yellow, striped brown, fine for bedding. Height ¾ ft..... Pkt. $0.10

TORENIA

TORENIA FOURNIERI. T. A valuable plant for pots, baskets or borders. Violet, with lilac and yellow. Height ¾ ft..... .15

VENUS' LOOKING GLASS

VENUS' LOOKING-GLASS. Pretty bell-shaped flowers; blooming profusely, well adapted for edging and hanging-baskets. Blue. Height ¾ ft..... .10

ANNUALS

VIRGINIAN STOCK

	Height	Pkt.
VIRGINIAN STOCK. Red, white and mixed.	½ ft.	$0.10

VISCARIA

Coeli-Rosea (Rose of Heaven). Pink.	Height ¾ ft.	.10
Elegans picta. Rose and scarlet.	Height 1 ft.	.10
Oculata. Rose, dark eye.	Height 1 ft.	.10

WHITLAVIA

Grandiflora. Violet.	Height ½ ft.	.10
Gloxiniodes. White and blue.	Height ½ ft.	.10

STOCKS

These popular flowers are unrivalled for garden display and our strain of Giant Perfection is without doubt the finest obtainable, growing to a height of 2 feet, and producing long spikes of highly fragrant flowers and a larger percentage of double than any other strain grown.

CULTURE—For a splendid display in summer, sow in February and March, continuing to sow at intervals for a succession of bloom. Sow in June and July for winter cutting and even later than this in warm localities. The soil should be carefully prepared, three parts of light loam to one each of leaf mold and sharp sand, being an ideal mixture, though any good garden soil will do. Sift this and put the rougher parts in the bottom of the flats or pans. Then fill up with the finer part, allowing room for watering. Sow the seed thinly as a pinch of seed produces hundreds of plants. As soon as sown, cover with about one-eighth of an inch of fine soil and over this place a piece of burlap or old gunny sack and keep moist. Watch closely and remove the covering at once when the seedlings appear and gradually shift to sun to harden. In a few weeks, the little plants will be large enough to transplant.

	Height	Per Pkt.
GIANT PERFECTION TEN-WEEK.		
Fiery Crimson	2 ft.	$0.15
Flesh Color	2 ft.	.15
Rose	2 ft.	.15
Light blue	2 ft.	.15
Dark blue	2 ft.	.15
Yellow	2 ft.	.15
White	2 ft.	.15
Mixed	2 ft.	.10
LARGE FLOWERED TEN-WEEK.		
Crimson	1 ft.	.10
Flesh	1 ft.	.10
Light blue	1 ft.	.10
Rose	1 ft.	.10
Yellow	1 ft.	.10
White	1 ft.	.10
Mixed	1 ft.	.10
PRINCESS ALICE.		
Cut and Come Again (white)	1½ ft.	.15

ZINNIA

(Youth and Age)

The Zinnia is so easily grown that it is apt to be left alone after sowing, to look after itself, and this it will do to an extent that is quite surprising. But give it the same attention that is given to other and less valuable flowers and there is nothing that can equal it for gorgeous beauty. Our Mammoth strain produces flowers as large as the finest Dahlias, magnificent in petalage and of the brightest imaginable coloring. To get this splendid effect, prepare the soil with care and use plenty of well decayed manure which must be well incorporated as the digging proceeds. Then sow the seeds where they are to flower. The finest Zinnias are always from plants that have not been transplanted. Thin to 18 inches apart or less, if the soil is poor. Cultivate the ground between the plants regularly, give water in abundance in dry weather and grand results will be obtained. The flower lasts a long time looking cheerful until the seed is quite ripe. The fact of the flowers remaining so long perfect has given the plant one of its common names "Youth and Old Age."

There is no better strain of Zinnias in existence than that offered.

GERMAIN'S MAMMOTH STRAIN OF ZINNIAS		
Giant Burnt Orange, double	3 ft.	$0.25
" **Crimson** "	3 ft.	.25
" **Flesh** "	3 ft.	.25
" **Scarlet** "	3 ft.	.25
" **White** "	3 ft.	.25
" **Yellow** "	3 ft.	.25
" **Mixed** "	3 ft.	.15
" **Dwarf. Double mixed**	1 ft.	.10
HAAGEANA, fl. pl. Double yellow	1 ft.	.10
ZINNIA ELEGANS. Finest double mixed	2 ft.	.10
ZINNIA DOUBLE GIANT PICOTEE (New) rich, remarkable and distinct class in various shades of color		.25

SEEDS OF CLIMBING PLANTS

Nothing lends such a charm to the home as vines and climbers. A vine clad porch or veranda on a hot day is a pleasant place. Vines soften ugly, hard lines in architecture, hide unsightly things in the garden, are beautiful in or out of flower and cannot be too freely planted. Many of the dwarfer kinds are nice for hanging baskets or for clothing parkways. Others are good for scrambling over old dead trees or posts. In short, there is no garden, no matter how small, in which vines do not play an important part in the scheme of decoration.

A—Annual **P—Perennial**

COLLECTIONS (Our Selection)

12 Beautiful Varieties, Climbing and Trailing Plants $0.75
6 Beautiful Varieties Climbing and Trailing Plants $0.35

ADLUMIA

ADLUMIA CIRRHOSA. P. The graceful Allegheny Vine; also Mountain Fringe. Pink. Height 8 ft ..... Pkt. $0.10

AMPELOPSIS

This is the well known Boston Ivy, a plant known from coast to coast. It clings with great tenacity to anything within reach of the little tentacles, produced from the stem. In summer, the foliage is deep green; in autumn it turns to the most delightful tints. The seed may be sown at any time of the year.

AMPELOPSIS. Veitchii (Japan Ivy). P. Height 50 ft ... .10

ANTIGONON

Planted in a sunny location, where it can ramble at will, there is not a more beautiful plant in existence than the Mexican Rosa de Montana. Nearly always in flower; the blossoms are like those of a rosy pink Begonia, but borne in the greatest profusion all over the plant. Will not thrive in a shady position.

ANTIGONON LEPTOPUS ..... .15

ARISTOLOCHIA

A. elegans is the newer of the two and is a twiner with small leaves and gorgeously colored flowers, freely produced. It has none of the unpleasant odor complained of in the older Aristolochias. A. Sipho is not so remarkable for its flowers, but the foliage is grand, its great leaves of the deepest green being among the finest things known in horticulture.

Elegans. Hhp. Chocolate and purple. Height 30 ft .... .10
Sipho (Dutchman's Pipe). P. Very odd-looking and interesting. Yellow and brown. Height 40 ft ..... .10

AUSTRALIAN PEA VINE

See Dolichos lignosus.

BALLOON VINE

BALLOON VINE. Hha. Bears a pretty, inflated capsule. White and green. Height 8 ft ..... .10

BIGNONIA

(Trumpet Vine). P. Sometimes classed with Tecoma. Robust, hardy. Very ornamental.

Radicans. Orange-scarlet. Height 15 ft ..... .10
Tweediana. Bright Yellow; evergreen. Height 20 ft ... .10

CANARYBIRD FLOWER

CANARYBIRD FLOWER (Tropoeolum peregrinum). Hha. A charming annual vine with delicate foliage. Flowers yellow. Height 8 ft ..... .10

CARDINAL CLIMBER

Ipomea Hybrid. It is one of the most striking climbers yet introduced. Grows to a height of 30 feet with attractive green foliage covered with a blaze of bright cardinal red flowers. A warm, sunny locality is best. Soak the seed in hot water over night, sow in boxes and transplant ..... .15

CLEMATIS

The beauty of the Clematis or Virgin's Bower is well known, but the plants are not as freely used as they ought to be. The new hybrid forms give a variety of color and size, some magnificent things having appeared among them, but there is not a single Clematis of any sort or kind that is not well worth its place in any garden. The seed takes a long time to germinate.

White ..... .10
Jackman's New Hybrids. Mixed. Height 10 ft ..... .25
Paniculata. Hardy perennial, massed with sweet scented white flowers ..... .10
Viticella. Purple. Height 10 ft ..... .10

CLIANTHUS

CLIANTHUS PUNICEUS (New Zealand Parrot's Bill). P. A very handsome climber. Bright scarlet. Hgt. 6 ft .15

COBAEA

P. Rapid-growing bell-shaped flowers.

Alba. White. Height 20 ft ..... .10
Macrostemma. Yellowish green, tipped with violet; stamens of enormous length. Height 15 ft ..... .15
Scandens. Purple. Height 20 ft ..... .10

CONVOLVULUS

A. The well-known Morning-Glories.

Aureus superbus. Yellow. Very fine, rare. Hgt. 8 ft. .15
Major, Blue. Height 10 ft ..... .10
Crimson. Height 10 ft ..... .10
Double. White-veined purple. Height 10 ft ..... .10
Pink. Height 10 ft ..... .10
Striped. Height 10 ft ..... .10
White. Height 10 ft ..... .10
Mixed. Height 10 ft ..... .10

CYPRESS VINE

(Ipomoea quamoclit). Hha. Well-known climbers, with handsome delicate foliage.

Scarlet. Height 8 ft ..... .10
White. Height 8 ft ..... .10
Mixed. Height 8 ft ..... .50

DOLICHOS

Pkt.

Lablab. Hha. Mixed. Height 8 ft $0.10
Lignosus alba ..... .10
Lignosus (Australian Pea). P. Rose and purple; one of the best climbers for a hot, dry climate. Height 15 ft... .10

ECCREMOCARPUS

ECCREMOCARPUS SCABER. P. Orange; very valuable to cover trellises. Height 6 ft ..... .10

HUMULUS

The Hop Vine is one of the quickest growers that we have and very beautiful. It rapidly covers arbors, fences or porches and is beautiful even when allowed to ramble at will about a pole or dead tree stumps. Sow in spring where plants are needed.

Japonicus (Japanese Hop). A. Height 20 ft ..... .10
Japanese Variegated ..... .10
Lupulus (Common Hop) ..... .10

IMPERIAL JAPANESE MORNING GLORY

Hha. Mixed, all colors. Very large. Height 30 ft ..... .10

IPOMOEA MEXICANA ALBA Pkt

IPOMOEA

Heavenly Blue. Hha. Light blue. Hgt 15ft $0.10
Leari (Blue Moon-flower). P. Splendid. Height 25 ft ... .10
Mexicana grandiflora alba (True White Moon-flower). Hhp. Height 30 to 40 ft ..... .15

KENNEDYA

KENNEDYA BIMACULATA GRANDIFLORA. P. Purple. Height 10 ft ..... .15

KUDZU VINE

KUDZU VINE P. (Pueraria Thunbergiana). One of the most rapid-growing vines known. Will grow 50 feet in one season. The leaves are very large, making it a suitable for plant covering arbor, trellis, etc. Slow in germinating, soak seed in hot water over night. Flowers are pea-shaped and rosy purple in color..... .10

SEEDS OF CLIMBING PLANTS

LATHYRUS

LATHYRUS LATIFOLIUS (Everlasting Pea). P. Mixed, rose and white. Height 6 ft ..... .10

LOASA

LOASA AURANTIACA (the Chilean Nettle Plant). Hha. Has beautiful, interesting golden yellow flowers. Must be handled with gloves, as the leaves sting. Height 6 ft ..... .10

LONICERA

LONICERA TARTARICA (Tartarian Honeysuckle). P. Rose. Height 6 ft ..... Pkt. $0.10

MANDEVILLEA

MANDEVILLEA SUAVEOLENS (Chili Jasmine). P. Very fragrant. White. Height 15 ft ..... .10

MAURANDIA

MAURANDIA. White. Hhp. Height 8 ft ..... .10
Purple. Height 8 ft ..... .10
Fine Mixed. Height 8 ft ..... .10

MINA

One of the prettiest vines. An annual that usually reproduces itself from seed when planted. The blossoms are elegant, yellow and red and produced with the greatest freedom. Not sufficiently known. Try it.

MINA LOBATA. Red, yellow and white. Height 15 ft .. .10

NASTURTIUM (TALL)

Thrives well in poor soil and covers quickly fences or bare spots in the landscape. The remarks on the dwarf varieties under "annuals" are also applicable to the tall ones.

Chameleon. A new variety, has flowers of different colors on same plant. Hgt 6 ft ..... Pkt. $0.10
Dark Crimson. Height 6 ft ..... .10
Edward Otto. Brownish lilac. Height 6 ft ..... .10
Heinemanni. Chocolate-color. Height 6 ft ..... .10
King Theodore. Dark maroon, with dark leaves; extra fine. Height 6 ft ..... .10
Orange. Height 6 ft ..... .10
Pearl. Creamy white. Height 6 ft ..... .10
Regalianum. Purplish violet. Height 6 ft ..... .10
Scarlet. Height 6 ft ..... .10
Vesuvius. Salmon-rose, dark-leaved; splendid. Hgt. 6 ft .10
Yellow. Height 6 ft ..... .10
Finest Mixed. Height 6 ft ..... .10

PASSION FLOWER.

PASSIFLORA

The well known Passion Flower, a splendid climber, thriving anywhere. The flowers are produced with great freedom all along the vine and while there is a great variety of colors, every one is beautiful.

Coerulea. P. Blue. Height 8 ft ..... Pkt. $0.10
Edulis. P. Mauve; edible fruit. Height 8 ft ..... .10
Rosacea (Incarnata). Tall; rose-pink ..... .25
White. Hhp. Three-angled stem; edible. Height 8 ft. .10
Fine Mixed. Height 6 to 8 ft ..... .10

PHASEOLUS

PHASEOLUS CARACALLA (Snail Vine). Hhp. Lilac-purple and white. Height 8 ft ..... .10

SMILAX

SMILAX. P. White; very useful for festooning. 6 ft. .10

SOLLYA

SOLLYA HETEROPHYLLA (Climbing Bluebell). Hhp. A pretty climber, with charming intense blue flowers. Height 6 ft ..... .15

TACSONIA

This resembles the Passion Flower but is if anything more ornamental. The growth is extra robust and the large flowers hang pendant from it, making it especially suitable for arbors or roofs of porches. The colors are variable, but usually some shade of red, scarlet shades being extremely telling and effective.

Ignea. Red ..... Pkt. $0.25
Pink ..... .25
Mixed. Height 6 ft ..... .10

THUNBERGIA

The best vine for windows and hangng baskets. It has deep, green leaves on scandent stems and the flowers are yellow or buff, with deeply colored eyes. One of the very best.

THUNBERGIA ALATA. Hha. Free bloomer of rapid growth; flowers of white and yellow shades, with striking black centers. Mixed, white and yellow. Height 6 ft ..... Pkt. $0.10

TROPAEOLUM

A. Useful climber, which may be pegged down and used for bedding purposes. May also be grown in pots for winter flowering.

Lobbianum, Spitfire. Vivid scarlet. Height 6 ft ..... .10
Finest Mixed. All colors. Height 6 ft ..... .10

WISTARIA

WISTARIA

WISTARIA SINENSIS. P. A charming old-fashioned hardy climber, producing its pale blue flowers in large clusters in early spring. Light blue. Height 50 ft ..... Pkt. $0.15

SWEET PEAS

CULTURE—Sweet Peas should be sown about three inches deep and require an abundance of water—but do not sprinkle the vine. Keep the flowers picked and do not allow them to run to seed or they will soon stop flowering.

The character of these flowers is of healthy and vigorous growth and quite distinct from the standard sorts. They are very large, measuring from 2 to 2½ inches across with large frilled and wavy standards. Three and four of these beautiful flowers are borne on one good long stem, making them unsurpassed for vases and other decorative flower work.

GIANT WAVED SPENCER VARIETIES

	Pkt.	Oz.
AMERICA. Red and white striped	$0.15	$0.45
APPLE BLOSSOM. Rose and blush	.15	.45
ASTA OHN. Lavender, tinted mauve	.15	.45
BLACK KNIGHT. Shining deep maroon	.15	.45
BLANCHE FERRY. Pink and white	.15	.45
COUNTESS SPENCER. Light pink, shading darker towards the edges	.15	.45
DAINTY SPENCER. White, edged pink	.15	.45
ELFRIDA PEARSON. Blush pink	.15	.45
FLORA NORTON. Clearest and most pronounced blue	.15	.45
FLORENCE MORSE. Dainty pink over white, edged pink	.15	.45
FLORENCE NIGHTINGALE. Clear lavender	.15	.45
HELEN LEWIS. Standard orange, wings salmon	.15	.45
KING EDWARD SPENCER. Carmine scarlet	.15	.45
MAUD HOLMES. Select sunproof crimson	$0.15	$0.45
MRS. C. W. BREADMORE. Buff with a rosy picotee edge	.15	.45
MRS. HUGH DICKSON. Buff and apricot pink	.15	.45
MRS. ROUTZHAN. Rose apricot, deeper in color, if partially shaded	.15	.45
OTHELLO. Rich, deep maroon	.15	.45
PASADISE IVORY. Ivory white, with a slight tinge of buff	.15	.45
PRIMROSE SPENCER. The color is a pronounced creamy yellow, with beautiful crinkled wings	.15	.45
QUEEN ALEXANDRA. Brightest crimson scarlet	.15	.45
STERLING STENT. Glowing salmon orange	.15	.45
TRIUMPH. Salmon pink, bi-color waved	.15	.45
WHITE. Best pure white, beautifully waved	.15	.45

SPENCER MIXED. 30 cents per oz.; $1.00 per ¼ lb.; $3.00 per lb
Separate colors $5.00 per lb.

GROW GERMAIN'S EXHIBITION VARIETIES OF THE FINEST IMPROVED

Giant Spencer Sweet Peas

PRICE:

15c. per pkt. 60c. per oz. Unless Otherwise Noted

Your Selection of 16 pkts., $1.50. Whole Collection of 22 Varieties $1.75

Agricola—Blush Pink. The largest and loveliest Spencer: long stems and an exquisite rose-blush.

Constance Hinton—Pure White. Extra large-frilled and one of the latest novelties.

Dobbies Cream. This is undoubtedly the best cream Spencer grown; beautifully waved large flowers.

Fiery Cross. A scorching fiery red color exquisitely waved and will not burn or fade during intense sunshine. Per oz. $1.00.

Henry Ohn. Rich cream pink, very frilled. Per oz. $1.00.

Hercules—Rose Pink. Immense flowers, long stems and a beautiful, rich, clear, rose color, very vigorous and a free bloomer.

Hilary Christie. New salmon orange, etched with fiery orange scarlet, wings rosy salmon. Per oz. $1.00.

Illuminator. A glowing cerise-salmon with an indication of bright orange, which glistens in the sunlight. Flowers large and wavy. This is the most beautiful of the many new Spencers.

Inspector. Duplex, glowing orange-salmon.

Irish Belle. Soft lilac, flushed with rosy mauve "Pastel colorings."

King White. The best Spencer White ever produced.

Leslie Imber. Best medium blue flowers of large size, much waved and long stems.

Margaret Atlee. A rich glowing pink softly suffused with salmon. Flowers extraordinary size, exquisitely waved and freely produced on long stems.

Margaret Madison. Grand azure blue.

Mrs. Cuthbertson. Rose pink, wings pink white.

Miriam Beaver. Finest shell-pink, large and ruffled.

Nubian. A new deep maroon, self-colored and of great merit. Giant flowers beautifully waved.

Rosabelle. Undoubtedly the largest rose color yet produced. Flowers much waved and crimped.

Royal Purple. A beautiful Royal Purple, large size and good form.

Scarlet Emperor. A vermilion brilliant, beautifully waved, surpassing all other scarlets in color and size.

Thos. Stevenson (Improved) Fiery orange red.

Wedgewood. A clear azure blue of fine form, beautifully waved, immense flowers. Newest and best blue.

SUNSET COLLECTION

The "Sunset Collection" is put up with each color in a separate package, and a liberal quantity of seed is offered at the attractive price of 50 cents.

"Sunset," Lavender—A beautiful shade of dainty lavender, open and wavy.

"Sunset," Orange Rose—Large wavy wings of the Spencer type.

"Sunset," Pink—A beautiful flower.

"Sunset," Primrose Buff—Large wavy flowers, deep cream or primrose colored.

"Sunset," Scarlet Brilliant—A most gorgeous flower with wavy standards and drooping wings. The choice of the scarlets.

"Sunset," Purple Striped on White—Mottled and striped on white ground.

"Sunset," White—An exquisite pure white, the finest of the Spencer forms. Large open waved lasting flowers.

SWEET PEAS

GRANDIFLORA VARIETIES

AMERICA. White ground, striped with blood red.

BLANCHE FERRY. Pink and white.

COUNTESS OF RADNOR, IMPROVED (New Countess). Pure light lavender; very large

DOROTHY ECKFORD. One of the largest and purest whites.

FLORA NORTON. Bright blue.

GORGEOUS. Bright orange-salmon wings orange red.

HON. MRS. E. KENYON. Primrose-yellow.

KING EDWARD VII. Bright crimson, large flowers.

LADY GRISEL HAMILTON. Delicate silver lavender.

NAVY BLUE. Deep blue.

OTHELLO. Deep maroon, very large.

PRIMA DONNA. Soft rose-pink; extra fine.

The above varieties, separate colors, packet 10 cents, dozen packets 75 cents, ounce 20 cents ¼ pound 60 cents, pound $2.00.

GRANDIFLORA LARGE-FLOWERING MIXED. From named varieties. Packet 10 cents, ounce 15 cents, ¼ pound 50 cents, pound $1.75.

CHRISTMAS VARIETIES

Grandiflora Type

	Pkt.	Oz
BLANCHE FERRY. Extra early pink and white	.10	.
EARLIEST OF ALL. Pink and white	.10	.
EARLIEST SUN-BEAMS. Primrose yellow	.10	
FLORENCE DENZER. Pure white	.10	.
METEOR. Crimson scarlet	.10	.
MONT BLANC. Pure white	.10	.
MRS. ALEXANDER WALLACE. Lavender	.10	.
MRS. F. J. DOLANSKY. Rose pink	.10	.
MRS. WM. SIM. Salmon pink	.10	.

CHRISTMAS MIXED. 30 cents oz.; $3.00 per lb.

NEW GIANT WINTER SPENCER

SWEET PEAS

For Winter flowers start planting from August 15th to November 15th. Will flower in 90 days.

	Pl
ASTA OHN (new) Lavender	$0.
BOHEMIAN GIRL Deep Pink	.
HELEN LEWIS (new) Orange Salmon	.
HERCULES (new) Mammoth Rose	.
MRS. A. A. SKACH Pink	.
MRS SIM Apricot Pink	.
PINK & WHITE (new)	.
RED (Xmas Red)	.
WEDGEWOOD (new) Bright Blue	.
WHITE ORCHID Pure White	.
YARRAWA Rose Light Wings	.
MIXTURE OF THE ABOVE COLORS	.

Separate colors, per ounce $1.50.

Mixed colors, per ounce $1.00.

ORNAMENTAL GRASSES

ORNAMENTAL GRASSES

Most of these, if cut before they are quite ripe, will be useful in winter bouquets or with everlasting flowers.

A, Annual. P, Perennial. Sow in boxes in February or March; when large enough, transplant.

	Pkt.
AGROSTIS NEBULOSA. A. Very graceful and fine for vases or bouquets. Height 1 ft	$0.10
AGROSTIS PULCHELLA. A. Very graceful and fine for vases and bouquets. Height 1 ft	.10
BRIZA MAXIMA. A. Large. Height 1½ ft	.10
BRIZA GRACILIS (Quaking Grass). A. Slender; fine for bouquets Height 1 ft	.10
COIX LACHRYMA. Job's Tears	.10
ERAGROSTIS ELEGANS (Love Grass). A. Has beautiful dancing spikelets; good for bouquets. Height 1 ft	.10
EULALIA JAPONICA (Japan Plume Grass). P. Very effective in groups. Height 6 ft	.10
FESTUCA GLAUCA. P. Very neat and compact; fine for edgings to ribbon beds and borders. Height ½ ft.	.10
FESTUCA PROCUMBENS. P. Very neat and compact; fine for edgings to ribbon beds and borders. Height ¼ ft.	.10
ISOLEPIS GRACILIS. P. Very pretty rush-like grass for hanging baskets and pot culture. Height 1 ft	.10
LAGURUS OVATUS (Hare's Tail Grass). Fine for bouquets. Height 2 ft	.10
LASIAGROSTIS ARGENTEA. P. Very graceful and fine for bouquets. Height 3 ft	.10
RAINBOW MAIZE. Striped in four colors, very ornamental for large clusters. Height 4ft	.25
STIPA PENNATA (Feather Grass). P. Universally admired in bouquets. Height 2 ft	.10
TRICHOLAENA ROSEA. P. Very pretty, with rose-colored panicles. Height 3 ft	.10
UNIOLA LATIFOLIA (Sea Oats). P. Very ornamental. Height 4 ft	.10
ZEA JAPONICA FOL. VARIEGATA (Striped Japanese Maize). Hha. Very ornamental. Height 4 ft	.10

EVERLASTING FLOWERS

Collections

OUR SELECTION

6 Fine Packets.	Value 60 cents	$0.40
10 Fine Packets.	Value $1.00	.75
15 Fine Packets.	Value $1.50	1.00

These are greatly admired and highly prized for winter bouquets. They should be cut when partially expanded, and hung with the heads downward until thoroughly dry.

	Pkt.
ACROCLINIUM.	
Single, white. Height 1 ft	$0.10
Pink. Height 1 ft	.10
Mixed. Height 1 ft	.10
Pink, double. Fifty per cent double flowers. Height 1 ft	.10
White, double. 50 per cent double flowers. Height 1 ft	.10
Mixed, double	.10
AMMOBIUM ALATUM. White. Height 1 ft	.10
GLOBE AMARANTHUS.	
Purple. Height 1 ft	.10
Flesh	.10
Rose	.10
White. Height 1 ft	.10
Fine mixed. Height 1 ft	.10
GNAPHALIUM LEONTOPODIUM. White. Height ½ ft. The true "Alpine Edelweiss."	.15
HELICHRYSUM (Straw Flower). Height 2 ft.	
Fireball, double	.10
Pink, double	.10
Salmon-rose, double	.10
White, double	.10
Yellow, double	.10
Mixed, double, (see cut)	.10
RHODANTHE. Mixed. Height 1 ft	.10
STATICE.	
Latifolia, Sea lavender. Producing panicles of minute lavender flowers	.10
Bonduelli, Yellow	.10
Candidissima, White	.10
Lavender	.10
Purple	.10
XERANTHEMUM. Double, mixed. Height 2 ft	.10

ORNAMENTAL GOURDS

Collections

OUR SELECTION

6 Fine Varieties.	Value 60 cents	$0.40
10 Fine Varieties.	Value $1.00	.75
16 Fine Varieties.	Value $1.60	1.00

	Pkt.
ABOBRA VIRIDIFLORA. Greenish flowers; a tuberous perennial gourd, with pretty scarlet fruits. Height 6 ft	$0.10
BRYONOPSIS LACINIOSA ERYTHROCARPA. Very ornamental, with pleasing cut foliage, and bright colored fruits. Height 5 ft	.10
CUCUMBER SNAKE	
Cucumis Flexuosus. Height 6 ft	.10
Wild. Very curious. Height 4 ft	.10
Bottle-shaped. White flowers. Height 10 ft	.10
Calabash-shaped. Height 10 ft	.10
Dipper. Height 10 ft	.10
Dish Rag. When properly prepared this is very serviceable in many ways. Height 6 ft	.10
Egg Shaped. "Nest Egg." Height 10 ft	.10
Gooseberry. Smallest. Height 10 ft	.10
Hercules Club. Fruits 7 to 8 ft. in length. Height 15 ft.	.10
Orange Shaped. (Mock Orange). Height 15 ft	.10
Pear Shaped. Height 10 ft	.10
Serpent (Trichosanthes Colubrina). Very long and coiled. Height 10 ft	.10
Sugar Trough. Enormous, holding several gallons. Height 15 ft	.10
FINEST MIXTURE	.10
MOMORDICA	
Balsamina. "Balsam Apple" Height 6 feet	.10
Charantia. "Balsam Pear." Height 5 ft	.10

The Momordicas are very handsome. The fruit bursts when ripe, exposing bright orange-scarlet interior, which resembles a handsome flower.

PERENNIALS

Our Selection 12 Fine Varieties of Perennial Flower Seeds. $1.00 Our Selection 6 Fine Varieties of Perennial Flower Seeds. $0.50
Plants of many perennials may be had. See Nursery Department.

The very word "Perennial" conjures up old time memories of old fashioned plants, lovely old gardens with borders, semi-neglected, perhaps, but always overflowing with flowers; gardens where one can cut sheaves and armfuls of flowers without their being missed, where every day in the year, there is something new. Giant blue Larkspurs look over garden walls or fences; Lilies invite one into the garden by their grateful perfume, while in the spring, the tender shoots pushing through the soil are almost as beautiful and equally interesting as the flowers. In autumn, Chrysanthemums, Dahlias, Asters and Foxgloves brighten the shortening days, while even the decaying foliage of those which have been so glorious during the summer is not without its charm. This is not the place for the tidying up gardener. It is "Grandmother's Garden", a garden of sweet things, of memories, of beauties unknown to those who only look for glaring displays and hard color outlines. And all these can be had by anyone who will take the little trouble to plant a few seeds, for nearly all these precious plants can be raised from seed, as easily as a pansy. Especially in the Southland, is this phase of gardening neglected, just where it ought to be most popular.

COLLECTIONS

ONE PACKET OF EACH OF THE HARDY PERENNIALS LISTED BELOW FOR $1.75. REGULAR VALUE $2.25

ANEMONE CORONARIA. Mixed. Height 1½ ft.
ANTIRRHINUM (Snapdragon). Mixed colors. Height 2 ft.
AQUILEGIA (Columbine). Mixed best varieties. Height 2 ft.
CENTAUREA CANDIDISSIMA (Dusty Miller). Height 1½ ft.
COREOPSIS LANCEOLATA. Bright gold. Extremely desirable. Height 2 ft.
DELPHINIUM ELATUM (Bee Larkspur). Mixed blue. Hgt. 2 ft.
DIGITALIS (Foxglove). Best variety, handsome markings, 3 ft.
DIANTHUS (Hardy Pinks), 3 packets. Three different varieties of rich and handsome colorings. Height 1 ft.
FRAXINELLA (Burning Bush). Height 2 ft.
FRENCH HONEYSUCKLE. Red and white mixed. Hgt. 3 ft.
GAILLARDIA (Blanket Flower). Finest mixed. Height 2 ft.
HONESTY. An old fashioned flower with a curious seed pod. Flowers pink, purple and white. Height 1½ ft.
IPOMOPSIS (Texas Plumes). Scarlet and gold. Height 3 ft.
HUNNEMANNIA (Yellow Tulip Poppy). With crinkled petals. Height 2 ft.
MARVEL OF PERU (Four o'clock). Large flowering mixed. Two ft.
PENTSTEMON GRANDIFLORA. Finest mixed. Height 2 ft.
PYRETHRUM ROSEUM. Single finest mixed. Height 2 ft.
ROSE CAMPION (Agrostemma Coronaria). Crimson flowers. Height 1½ ft.
SWEET ROCKET (Dame's Violet). Sweet scented mixed. 1½ ft.
SWEET WILLIAM. Finest varieties single and double mixed. Height 1½ ft.
VINCA (Periwinkle). Mixed colors. Height 2 ft.
WALLFLOWER. Fragrant. Finest varieties mixed. Hgt. 2 ft.

ACONITUM

Pkt.

MONK'S HOOD or WOLFBANE. For shady corners. Blue flowers. Three to five feet high..... .10

ALYSSUM

Must not be confounded with the Sweet Alyssum. A lovely plant with golden yellow flowers so profusely produced as to completely hide the plant. Grows anywhere. Pkt.
ALYSSUM SAXATILE. B. Beautiful yellow. Hgt. ¾ ft. $0.10

ANCHUSA

ANCHUSA CAPENSIS (Cape Alkanet). B. Azure-blue, free-blooming biennial. Height 1½ ft..... .10

ANEMONE

ANEMONE CORONARIA (Windflower). Beautiful, early spring-flowering plants. Mixed. Height ½ ft..... .10

ANTIRRHINUM

The old-fashioned Snapdragon, one of the hardiest and best perennials, flowering the first year from seed. The colors are now rich and varied, the habit tall or dwarf, as indicated below—an indispensable plant. Pkt.

Black Prince. Nearly black; semi dwarf. Very fine..... $0.10
Golden Queen. Semi dwarf..... .10
Silvery Pink..... .10
Dwarf, Mixed..... .10
Giant Firefly. Brilliant scarlet. Height 2 ft..... .10
Giant Rose. Height 2 ft..... .10
Giant White. Height 2 ft..... .10
Giant Yellow. Height 2 ft..... .10
Giant Victoria. Pure white. Height 2 ft..... .10
Giant Mixed. Height 2 ft..... .10
Tom Thumb, Mixed. Height ¾ ft..... .10

AQUILEGIA

The old-time Columbine, a delightful plant in every respect, native to America, but much improved by cultivation and selection. Our Rocky Mountain Columbine is one of the finest of all, with its long caudate spurs and charming coloring. Every color is represented in such lovely combinations as to win the admiration of all.

Chrysantha. Yellow. Height 2 ft..... .10
Coerulea (Colorado State Flower)..... .15
Long Spurred Hybrids. Mixed..... .25
Double Mixed Hybrids. Very fine. Height 2 ft..... .10
Single Mixed. Height 2 ft..... .10

ARABIS

One of the first flowers of spring, better known as "Snow on the Mountain". Comes easily and freely from seed and produces a white sheet of flowers, fragrant and delightful. Fine for rockwork.
ARABIS ALPINA White. Height ½ ft..... .10

ARMERIA

ARMERIA. The Sea Pink, an edging plant without an equal; fine foliage even after the flowers are gone, always attractive..... .10

ASPARAGUS

Sprengeri. A fine ornamental plant for hanging baskets. .10
Plumosus. A fine pot-plant; 100 seeds 85 cents..... .10

ASPERULA

ASPERULA ODORATA (Woodruff). White; very fragrant. Height ½ ft..... .10

AURICULA

AURICULA. Finest English hybrids; from the finest collection. Fine deep colors, variously margined. Good for pot culture. Height ½ ft. ..... .25

BEGONIA

The tuberous rooted Begonia is one of the finest greenhouse plants. Sow in early spring, in fine sterilized soil, leaf-mold and sand. Cover the seeds very slightly and place a sheet of glass over each pan or flat until the young plants are up. Prick off singly as soon as large enough to handle and place in small pots when ready, potting into the larger sizes as they fill the smaller with roots. The tuberous Begonia is also good for bedding in a semi-shaded position, but will not stand the full sun. The fibrous rooted kinds do better with more light.

Tuberous-rooted. Double mixed..... $0.50
Tuberous-rooted. Single mixed..... .50
Luminosa, fiery dark scarlet. Dark foliage..... .25
Prima Donna. Pink. Fine for pot plant..... .25
Semperflorens. Mixed..... .25
Vernon Type. Clear Pink..... .25
Vernon Type. White-edged Pink..... .25
Vernon Type. Mixed..... .15

PERENNIALS

For Plants See Nursery Department

BELLIS

The popular **Double English Daisy.** Very useful for edgings. Pkt.

Longfellow. Large, rose. Height ¼ ft $0.10
Quilled. Mixed, fine. Height ¼ ft ..... .15
Snowball. White. Height ¼ ft ..... .10
Mixed. Fine. Height ¼ ft ..... .10
Red, Mammoth. Height ¼ ft ..... .25
Rose, Mammoth ..... .15
White Mammoth ..... .15
Mammoth Mixed ..... .15

CACTUS

CACTUS. Saved from the best and most distinct species. Finest mixed. Height ½ to 4 ft ..... .15

CAMPANULA

This includes the Bell Flowers and the delightful old Canterbury Bells. Easily grown, free flowering plants that can be raised from seed in less than six months. Sow in August for spring flowering and again in the spring. (Bellflower). (See also Canterbury Bells.) Pkt.

Carpatica. Blue. Height ½ ft $0.10
Pyramidalis. Blue. Height 3 ft ..... .10

CANNA

CANNA. Handsome plant for lawn decorations and for backgrounds. Soak seed in tepid water twenty-four hours before sowing.

New French Hybrids. Mixed. Height 4 ft ..... .10

CANTERBURY BELLS

B. Very handsome border perennials of great utility, and deservedly popular favorites. They are called "Hose in Hose" or "Cup and Saucer" Canterbury Bells.

SINGLE
Blue ..... .10
Rose ..... .10
White ..... .10
Mixed ..... .10

DOUBLE
Blue ..... .10
Rose ..... .10
White ..... .10
Mixed ..... .10

CALYCANTHEMA
Blue ..... .15
Rose ..... .15
White ..... .15
Mixed ..... .15

CARNATION

Our seed is saved from the finest kinds selected, especially for bright coloring, size and fragrance. The Marguerite forms are smaller but flower in a shorter time from seed.

CARNATION. Pkt.

Finest German Mixed. Height 1½ ft $0.25
Grenadin. Early dwarf, red. Height ½ ft ..... .10
Hermine. Pure white; extra fine. Height 2 ft ..... .25
Marguerite Mixed. Will commence flowering within four months from the time of coming up. Height 1½ ft ..... .10
Marguerite, Snowflake. Pure white. Height 1½ ft ..... .10
Perpetual, or Tree. Very fine mixed. Height 2 ft ..... .25
Salmon. Height 2 ft ..... .25
Scarlet. Height 2 ft ..... .25
Yellow. Height 2 ft ..... .25
Redondo Mixed. Height 1½ ft ..... .15

CENTAUREA

Dusty Miller). Fine plants for borders.

Candidissima. White foliage. Height 1 ft ..... .10
Gymnocarpa. Height 1 ft ..... .10

CERASTIUM

CERASTIUM TOMENTOSUM (Jerusalem Star). White leaves; trailer; useful for edging and rockwork ..... .15

CHRYSANTHEMUM

Frutescens. (Paris Daisy or Marguerite). B. White, yellow eye. Height 2 ft ..... .10
Leucanthemum hybrid (Shasta Daisy); White, yellow center; flowers four inches in diameter; valuable for cutting. Height 2 ft ..... .10
Indicum (Chinese). Mixed. Height 3 ft ..... .10
Nanum (Pompone). Mixed. Height 2 ft ..... .10
Japonicum (Japanese). Mixed. Height 3 ft ..... .10

The last three kinds are the Chinese and Japanese varieties so extensively grown and used during the fall.

CINERARIA

CINERARIA MARITIMA CANDIDISSIMA. Silvery foliage, very useful for ribbon beds and borders. Height 1 ft ..... .10

CLIANTHUS

CLIANTHUS DAMPIERI (the Australian Glory Pea). A magnificent flower, scarlet, with black center. Water sparingly after sowing. Height 4 ft ..... .15

COLEUS

Gorgeous leaved plants, suitable for bedding out or indoor use. The coloring in our large leaved varieties is not excelled by even the finest Caladiums, while the variety in tints is remarkable. The Coleus likes plenty of sun, ample moisture and rich, light soil to bring out its best points. Sow in March. Pkt.

New large-leaved. Very fine. Height 2 ft $0.25
Finest Mixed. Height 2 ft ..... .15

PERENNIALS

CONVOLVULUS

CONVOLVULUS MAURITANICUS. Hardy perennial for hanging-baskets with flowers of bright metallic luster. Lavender, trailer ..... .10

COREOPSIS

The best golden yellow composite, fine for cutting or for garden decoration. It comes easily and quickly from seed and flowers very freely. Sow several times in the year for a succession of bloom. Pkt.

Grandiflora. H. Height 2 ft $0.10
Lanceolata. B. A beautiful plant, with lance-shaped leaves and showy bright flowers 2 or 3 inches in diameter. Yellow. Height 2 ft ..... .10

CUPHEA

CUPHEA PLATYCENTRA (the Cigar Plant). Pretty tubular flowers. Scarlet and black. Height 2 ft ..... .10

CYCLAMEN

One of the most popular of greenhouse plants and deservedly so. The seed should be sown in autumn, any time from August to November, and again in the spring for a succession of flowers. During the last ten years, the strains have been greatly improved by European hybridists. We constantly add the finest varieties and there is nothing better than our strain in existence. The seeds should be dibbled in half an inch deep and 1 inch apart. Hh. Pkt.

Persicum. Bulb. Fine mixed. Height ½ ft $0.25
Persicum giganteum. Bulb. Fine mixed. Height ¾ ft. .25

DAISY See Bellis.

DAISY, SHASTA. See Chrysanthemum above.

DAHLIA

While Dahlias are more frequently raised from tubers than seed, there is great interest in growing some seedlings, as there is always the chance of getting something novel and distinct among them. Both single and double, also the Pompon and Cactus forms can be grown this way. Sow in February and March, under glass, or in April in the open ground. Watch carefully for slugs and small snails, as these will ruin hundreds of the young plants in a night, if allowed to. Something in the Dahlia is very attractive to these pests. Hh.

Large-flowered double, best quality mixed. Height 5 ft ..... Pkt. $0.15
Cactus. Mixed colors. Height 5 ft ..... .15
Pompone. Small bouquet, mixed. Height 4 ft ..... .15
Single, Mixed. Height 5 ft ..... .10

DELPHINIUM

The perennial larkspur is possibly the finest herbaceous plant in existence, rivaling even the Peony. The plants thrive in any soil and situation, withstand frost and heat and are always the central attraction in the hardy perennial border. The blue forms are superb, while the scarlet, though not quite as hardy as the others, is extremely showy. Sow in autumn and again in spring. For plants see Nursery Department.

Cardinale (Scarlet Larkspur). Bright scarlet. Height 3 to 5 ft ..... Pkt. $0.10
Bella Donna Clear turquoise blue ..... .25
Burbank's Hybrids. Mixed blues & lavender ..... .25
Elatum (Bee Larkspur). Mixed. Height 3 ft ..... .10
Formosum. Bright blue. Height 4 ft ..... .10
Hybridum. Double, extra choice mixed. Height 3 ft ..... .15

DIANTHUS

Belongs to the same family as the Carnation. Pretty and easily grown plants, coming freely from seed and liking a light, sunny position. Sow at any time. Pkt.

DIANTHUS. Albus (White Diadem Pink). Height 1 ft $0.10
Double Mixed. Height 1 ft ..... .10
Diadematus (Double Diadem Pink). Height 1 ft ..... .10
Fire Ball ..... .10
Imperialis (Double Imperial Pink). Mixed. Height 1 ft ..... .10
Heddewigii. Fine mixed. Height 1 ft ..... .10
Crimson Bell. Dark crimson. Height 1 ft ..... .10
Queen of Holland. White. Height 1 ft ..... .10
Nobilis (Royal Pinks). Flowers 3 to 4 inches in diameter, petals frilled and fringed; colors vary from bright blood-red to carmine, pink and white. Height 1 ft ..... .10
Hybridus. Double mixed. Height 1 ft ..... .10
Laciniatus, Single Mixed. Height 1 ft ..... .10
Mixed. All sorts. Height 1 ft ..... .10

DIGITALIS

The Foxglove is one of the oldest garden plants and a favorite everywhere. Produces tall, showy spikes of pretty, showy flowers in a great variety of color. Pkt.

DIGITALIS GLOXINOIDES (Foxglove). Fine mixed. 3 ft $0.10

DELPHINIUM

DODECATHEON

DODECATHEON MEDIA (American Cowslip). Lilac. Fine for rockwork, etc. Height ½ ft ..... .10

ERIGERON

ERIGERON. Bluish lilac daisies. Producing a mass of flowers nearly all the year around. Good winter flowers. Height 2 ft ..... .10

ERPETION

ERPETION RENIFORME (Viola hederacea; Australian Pansy). A pretty tufted plant with kidney-shaped leaves and blue flowers; rare and curious. Hgt. ½ ft. .25
ERYTHRINA CRISTA-GALLI (Coral Tree). Dark red. A handsome decorative plant for shrubbery. Hgt. 6 ft. .15

EVENING PRIMROSE

EVENING PRIMROSE. Yellow. Very showy for mixed borders and shrubbery, etc. Height 3 ft ..... .10
FERNS. All species mixed; choicest varieties. ½ to 2 ft. .15
FORGET-ME-NOT. See Myosotis.

FRAXINELLA

The Fraxinella or Burning Bush possesses the peculiar property of giving off a volatile oil or gas that ignites and flashes up for a second or so when a lighted match is applied, without injury to plant. A pretty, herbaceous plant, worthy extended culture.

FRAXINELLA (Burning Bush). Red; handsome. The seed is slow to germinate. Height 2 ft ..... Pkt. $0.10

FREESIA

FREESIA REFRACTA ALBA. B. Well-known bulbous plants, blooming in one year from seed. White. Height ¾ ft ..... Pkt. $0.10

FRENCH HONEYSUCKLE

FRENCH HONEYSUCKLE (Hedysarum coronarium). Red and white mixed. Hardy, profuse-blooming. Succeeds well near the seaside. Not to be confounded with the climbing Honeysuckle. Height 3 ft ..... .10

PERENNIALS

GAILLARDIA

(Blanket Flower). B. Showy border plant. Pkt.
Grandiflora. Splendid mixed. Height 1½ ft..... $0.10
Maxima. Golden yellow. Height 2 ft..... .10
Lorenziana. Double, mixed colors. Height 1½ ft..... .10
Picta. Red and yellow. Height 1½ ft..... .10

GENTIANA

GENTIANA ACAULIS. An alpine plant of great beauty; fine for borders and rock work; intense blue. Height ¼ ft .10

GERANIUM

B. Seed saved from best varieties of all kinds
Apple-scented. Very fragrant. Height 1½ ft..... .15
Ivy-leaved. Trailer. Finest mixed..... .15
Tricolor. Gold and bronze leaves. Height 2 ft..... .25
Zonale, Single. Finest mixed. Height 5 to 6 ft..... .10
Double. Finest mixed. Height 3 ft..... .25
See Pelargonium for show varieties.

GERBERA

The original form of this fine composite was bright red, but we have now almost all colors. Comes rather slowly from seed, but well worth waiting for. Sow at intervals all through the spring and summer. See adjoining engraving.
Jamesoni (Transvaal Daisy). The Scarlet Daisy of South Africa..... Pkt. $0.25
Hybrids. Mixed Colors..... .25

GEUM

GEUM MRS. BRADSHAW

Coccineum (Scarlet Avens). A Chilian plant of great beauty; very useful in mixed borders. Scarlet. Height 2 ft..... .10
Mrs. Bradshaw. The double Mrs. Bradshaw is undoubtedy the finest Geum produced. The flowers are large and full, of a beautiful orange scarlet color, blooming from April to September. A harby perennial. Height 18 inches..... .25

GLOXINIA

GLOXINIA HYBRIDA. T. A beautiful greenhouse perennial bulb. Seed saved from the finest erect and drooping varieties. Finest mixed. Height 1 ft..... .25

GOLDENROD See Solidago.

GYPSOPHILA

GYPSOPHILA PANICULATA. B. Very graceful, flowering in panicles, and excellent for cut-flowers. White. Height 1½ ft. See also Annuals..... .10
Pink..... .10

HELIOTROPIUM

HELIOTROPIUM (Cherry Pie). Deliciously fragrant, also fine for pot culture. Finest mixed. Height 6 ft..... .10

HEUCHERA

B. Allied to the Saxifragas; very graceful; valuable for cut-flowers.
Alba. White. Height 1 ft..... .15
Sanguinea. Crimson. Height 1 ft..... .15

GERBERA JAMESONI

HIBISCUS

Well-known showy perennial shrubs with brilliant flowers.
Coccineus. Scarlet. Height 5 ft..... .10
Roseus grandiflorus. Pink. Height 4 ft..... .10

HOLLYHOCK

The Hollyhock comes fairly true from seed and will flower the first year if the seed is sown early and transplanted to rich soil. Sow again in the fall and transplant in the spring. One of the few herbaceous plants that are effective in landscape work. Pkt.
Allegheny. Semi-double, fringed, mixed. Height 5 ft.. $0.10
Chater's Superb Double Mixed Height 5 ft..... .10
Finest Double Crimson. Height 5 ft..... .10
Flesh..... .10
Newport. Pink. Height 5 ft..... .10
White. Height 5 ft..... .10
Yellow. Height 5 ft..... .10
Mixed. Height 5 ft..... .10

HONESTY

HONESTY. B. Interesting in a dried state, the membranous lining of the seed-pod making a handsome ornament for winter bouquets. Purple. A biennial. Height 1½ ft..... .10

HUNNEMANNIA

HUNNEMANNIA FUMARIAEFOLIA. A showy plant belonging to the Poppy family. Yellow. Height 2 ft .10

HYACINTHUS

HYACINTHUS CANDICANS. A bulbous plant, throwing up a spike bearing 20 to 30 yucca-like flowers; pure white and fragrant. Height 3 ft..... 10

IPOMOPSIS

IPOMOPSIS (Texas Plumes). Showy scarlet and gold pyramidal blossoms and feathery foliage. Fine mixed. Biennial. Height 3 ft..... .10

LANTANA

LANTANA. B. White, rose and yellow particolored fragrant flowers, like heliotrope in form. Finest mixed. Height 4 ft..... .10

LAVENDER

LAVENDER SWEET. Blue; a hardy shrub, well-known and esteemed for its delicious fragrance. Height 3 ft.. .10

LINARIA

LINARIA CYMBALARIA (Kenilworth Ivy). White and purple; very pretty for rock and hanging-baskets; trailer..... .10

PERENNIALS

LOBELIA

Pkt.

LOBELIA CARDINALIS (Cardinal Flower). Height 2 ft. $0.10

LUPINUS

LUPINUS. B. Mixed, all colors. Height 1 to 4 ft..... .10

LYCHNIS

(Jerusalem Cross). B. Favorite hardy plants for borders and shrubbery.

Chalcedonica. Bright scarlet. Height 2 ft..... $0.10

Haageana Hybrida. Finest mixed. Height 2 ft..... .10

MARVEL OF PERU

MARVEL OF PERU (Four O'clocks). This well-known plant has few rivals for beauty, expanding in the afternoons and continuing open all night. Finest mixed. Height 2 ft..... .10

HUNNEMANNIA

MATRICARIA

MATRICARIA EXIMIA (Feverfew). B. Double white, very handsome, showy flowers, continuing a long time in bloom. Height 2 ft..... .10

MIMULUS

Brilliant perennials flowering for the first season if sown early; also suitable for pot-culture.

Cardinalis (Scarlet Monkey Flower). Dark red. Height 1½ ft..... .10

Tigrinus grandiflorus. Finest mixed, spotted and tigered varieties. Height 1½ ft..... .10

MUSK PLANT

MUSK PLANT (Mimulus moschatus). Yellow; a universal favorite. Height ½ ft..... .10

MYOSOTIS

(Forget-me-not). B. Very beautiful and much prized for spring flowers.

Azorica. Dark blue. Height ½ ft..... .10

Alpestris. Light blue. Height ½ ft..... .10

Dissitiflora. Brilliant blue, earliest flowering. Height ½ ft..... .15

Palustris semperflorens. Bright blue. Height 1 ft..... .10

NIEREMBERGIA

NIEREMBERGIA GRACILIS. Silvery lavender. Excellent for hanging-baskets, edgings, etc. Height 1 ft..... .10

OENOTHERA

OENOTHERA LAMARCKIANA. A grand Evening Primrose, with long spikes of yellow flowers. Yellow. Height 4 ft..... .10

OXALIS

OXALIS (Shamrock, or Wood Sorrel). Delightful little plants for edging, hanging-baskets and rockwork.

Rosea. Pink. Height ½ ft..... .10

Tropaeoloides. Yellow. Height ¼ ft..... .10

PANSY or HEARTSEASE

CULTURE—To have Pansies in perfection, sowings should be made every month from the end of July to the end of April. Young, vigorous stock always gives the best results. Sow in pans or frames and transplant when large enough to a border of rich soil. Water must be given freely in bright weather and the flowers gathered as soon as they begin to wilt in order to keep up a succession and prevent running to seed, which injures the plants and tends to small flowers.

GERMAIN'S GIANT PRIZE PANSIES

For Plants See Nursery Department

We are pleased to call your attention to our Superb Giant Prize Pansies and we do not hesitate to recommend our Mixture as containing the finest and largest varieties in the world. Each year we add the latest Giants and so our mixture is unsurpassed in size, in beauty of markings and of colorings. The innumerable varieties of Pansies embracing every color from white to black, maroon, yellow, purple, striped, mottled, wine shades, bronze, sienna and those with the delicate markings as well as those with the bold showy faces are all found in our mixture.

What could be more interesting to any lover of flowers than a bed of Pansies fresh with the morning dew, some clad in their rich velvety petals and others turning their smiling faces upward asking only to be appreciated in their brief effort to make the world a little more beautiful!

	Pkt.
GIANT PURPLE. Very showy. Velvety Royal Purple	$0.25
GIANT KING OF THE BLACKS	.25
GIANT MADAME PERRET. An exquisite pansy. Every blossom displays the soft red wine shades in varying degree, either faint or intense	.25
GIANT GOLDEN YELLOW. Canary Bird. Very beautiful	.25
GIANT WHITE. With purple eye, extra fine	.25
GERMAIN'S SUPERB GIANT PRIZE MIXTURE	.25

25 cents per package, or the full Collection of Six for $1.00.

GIANTS, LARGE FLOWERING AND OTHER VARIETIES

	Pkt.
BUGNOT'S SUPERB BLOTCHED. Extra fine, hgt ½ ft.	.50
CASSIER'S. Very large-flowered, finest mixed, hgt ½ ft.	.25
EMPEROR WILLIAM. Ultramarine blue. Height ½ ft	.10
ENGLISH MIXED. Extra elect, large, velvety. Hgt ½ ft	.15
FAUST, KING THE BLACKS. Coal-black. Hgt ½ ft.	.10
GIANT TRIMARDEAU. Mixed, very large and of vigorous growth. Height ¾ ft	.25
Parisian Large Stained. Large-flowered. Height ¾ ft	.25
GOLD-MARGINED. Brownwith gold border. Hgt. ½ft.	.10
GOLDEN YELLOW. Pure. Height ½ ft	.10
Dark center. Height ½ ft	.10
LORD BEACONSFIELD. Large, purple-violet shading off to lavender. Height ½ ft	.10
MADAME PERRET. Wine, pink and red shades. Beautiful veinsand white margins	.25
MAHOGANY-COLORED. Height ½ ft	.10
MASTERPIECE. New Giant curled, or ruffled Pansy. Highest perfection in the class	.25
ODIER'S FIVE-BLOTCHED. Very fine, with a black blotch on each petal. Height ½ ft	.25
PEACOCK. Royal purple, shot with peacock-blue. Height ½ ft	.15
PRESIDENT CARNOT. White, violet blotches. Hgt ½ ft	.15
TRIUMPHANT GIANTS. Selected prize flowers. Hgt. ½ ft	.50
SNOWFLAKE. Pure white. Height ½ ft	.10
STRIPED AND VARIEGATED VARIETIES. Hgt. ½ ft.	.10
VICTORIA. Blood-red. Height ½ ft	.15
VIOLET. White-margined. Height ½ ft	.10
WHITE, with Black Center. Height ½ ft	.10
FINE MIXED. Height ½ ft	.10

PERENNIALS

PETUNIA

SINGLE PETUNIA

CULTURE—The Petunia is a hardy Perennial, producing the most showy flowers in the greatest profusion. For bedding purposes or garden decoration, it is indispensable. It succeeds best in a sunny location. Sow the seed very shallow and keep moist. The Single Petunia is of the easiest culture—seeds itself when once planted and grows in any soil that will sustain plant life.

Very ornamental, free-flowering plants, for bedding in masses or borders. Pkt.

Single Inimitable. Blotched and striped, very handsome. Height 1 ft. $0.10
Giants of California. Very large ruffled and fringed, extra fine mixed. Height 1 ft. ..... .25
Fringed. Large-flowered, superb mixed. Height 1 ft. ..... .25
White. Height 1 ft. ..... .10
Good Mixed. Height 1 ft. ..... .10
Double Fringed. Superb mixed. Height 1 ft. ..... .50
Double Extra Fine. Mixed. Height 1 ft. ..... .25

PELARGONIUM

(**Lady Washington Geranium**). B. Favorite bedding and greenhouse plants, with brilliant flowers. Seeds saved only from the finest sorts. Pkt.

Fancy, best and richest colors mixed. Height 3 ft. $0.25
Large-flowered. Richest colors, mixed. Height 3 ft. ..... .15

PENSTEMON

B. Fine herbaceous perennials, very showy in mixed borders. Pkt.

Hartwegi Grandiflorus. New large-flowered mixed. Height 2 ft. $0.15
Finest Mixed. Height 2 ft. ..... .10

PHLOX

Pkt.

PHLOX: PERENNIAL. B. A very showy, handsome plant. Finest mixed. Height 2 ft. $0.10

PINK

Florist's (Pheasant's Eye Pink). B. Very fine, usually marked with a ring in center, double and fragrant. From fine show varieties, mixed. Height 1 ft. ..... .10
Picotee. B. Splendid Hardy Pinks, beautifully marked on edge of petals. Finest mixed. Height 1 ft. ..... .15

POLEMONIUM

POLEMONIUM COERULEUM (Jacob's Ladder). An old-fashioned English perennial, used in mixed borders. Blue. Height 2½ ft. ..... .10

POLYANTHUS

Charming early-flowering plants, beautifully laced and and edged.

Finest Gold-laced varieties. Height ft. ..... .25
Choice Mixed. Height ½ ft. ..... .10

DOUBLE PETUNIA

PERENNIAL

POPPY

Very showy plants for mixed borders. The Iceland Poppies will bloom the first year from seed if sown early.
For other varieties, see list of annuals. Pkt.

Perennial Hybrid Mixed. Height 4 ft. $0.25
Perennial bracteatum. Scarlet. Height 3 ft. .10
Orientale. Dark red. Height 4 ft. .10
Orientale. Mixed. Height 4 ft. .10
Iceland (Papaver nudicaule). Yellow. Height 1¼ ft. .10
Orange. Height 1¼ ft. .10
White. Height 1¼ ft. .10
Mixed. Height 1¼ ft. .10

PRIMULA (PRIMROSE)

T. Fine pot-plants for winter and spring flowering; for indoor culture.

Fringed. White. Height ½ ft. .25
Red. Height ½ ft. .25
Finest Mixed Fringed. Height ½ ft. .25
Primula Malacoides. The flowers are of a pale mauve color, produced in small clusters. Height 1½ ft. .25
Obconica. T. Light mauve. Height ½ ft. .15
PRIMROSE. An old-fashioned garden-favorite. True English yellow. Height ½ ft. .15

PYRETHRUM

Cinerariaefolium. The plant from which is made the Persian insect powder in Europe, or "Buhach," as made in California .15
Roseum hybridum. Single. Finest mixed. Height 2 ft. .10
Parthenifolium aureum (Golden Feather). Height ½ ft. .10
Selaginoides. Yellow fern-like foliage, very fine. ½ ft. The second variety is grown for its flowers, the last two are well-known edging plants. .10

ROMNEYA

ROMNEYA COULTERI (Matilija Poppy). A noble plant. White, with yellow center. Height 6 to 10 ft. .10

ROSE CAMPION

ROSE CAMPION (Agrostemma coronaria). Crimson flowers; silvery foliage. Height 1½ ft. .10

ROCKET

ROCKET, SWEET (Dame's Violet). Valuable for borders, free-blooming and sweet-scented. Fine mixed. Height 1½ ft. .10

RUDBECKIA

Bicolor Superba Semiplena. Semi-double flowering. Fine for cutting. Height 2 ft. .10
Golden Ball. A hardy, everblooming plant covered with masses of double chrysanthemum-like flowers from early spring to late fall. Height 6 to 8 ft. .25

SALVIA

Flowering Sage. B. Brilliant-flowering plants for borders, back-grounds and centers of beds.

Bon-fire Dwarf. Brilliant scarlet flowers. Height 2½ ft. .10
Patens. Hh. Sky-blue. Height 2 ft. .15
Splendens. Hh. Dazzling scarlet. Height 3 ft. .10

SANTOLINA

SANTOLINA CHAMAECYPARISSUS (Lavender Cotton). A silvery-leaved plant, useful for edging. Height 2 ft. .10

SAXIFRAGA

SAXIFRAGA (Mother of Thousands or London Pride). Charming little trailing plants for hanging baskets, vases or rockwork. Fine mixed. Height ½ ft. .15

SCABIOSA

SCABIOSA CAUCASICA. A highly decorative hardy perennial. Large handsome flowers. This wonderful Scabiosa is overlooked by to many lovers of flowers.
Mauve or white .25

SENSITIVE PLANT

SENSITIVE PLANT (Mimosa pudica). An interesting plant with the peculiarity of closing its leaves when touched. Pink. Height 2 ft. .10

SOLIDAGO

SOLIDAGO CANADENSIS (Goldenrod). Height 2 to 3 ft .10

SOLANUM

SOLANUM, WEATHERILL'S HYBRIDS. Hh. Decorative species for pot culture, bearing orange-colored berries. Mixed. Height 1 ft. .10

STATICE

STATICE LATIFOLIA (Sea Lavender). A favorite hardy perennial with bright blue flowers, very useful for bouquets. Height 1 ft. .10

STEVIA

STEVIA SERRATA. B. A valuable plant for florists, producing large heads of small, white fragrant flowers; very graceful and excellent for cutting purposes. White. Height 1½ ft. .10

STOCKS

(Perennial). B. (For Ten-weeks Stocks, see Annuals). The true "Gilliflower." Pkt.

Winter Nice. Abundance, carmine rose .15
Almond Blossom. White, shaded carmine .15
Beauty of Nice. Flesh pink .15
Crimson King. Tall long spikes .15
Deep Lilac. .15
Purple. Remarkably fine .15
Rose. .15
White. Free flowering, Germain's Special .15
Mixed .15
Brompton. Finest mixed. Height 2 ft. .15
Cocardeau, or Giant Cape Winter. Finest mixed. 2½ ft. .15
Emperor. Very fine mixed. Height 2½ ft. .15

SWEET WILLIAM

B. Well-known and very showy plants for borders; flowering early in the spring.

Hunt's Auricula-flowered Perfection. Single mixed. Height 1½ ft. .10
Single. Pure white. Height 1½ ft. .10
Finest mixed. Height 1½ ft. .10
Double. Finest mixed. Height 1½ ft. .10

VALERIANA

VALERIANA. Mixed. Height 2 ft. .10

VERBENA

B. For garden beds and massing the verbena's are unriveled; from spring until late autumn flowers of the most varied and brilliant colors are produced. Although perrenials, they will bloom the first season from seed and and form splendid plants.

Auricula-flowered Mixed. With white centers; trailer. $0.10
Large White. Trailer .10
Mammoth Mixed. Trailer .15
Pink. Trailer .10
Purple. Trailer .10
Scarlet. Trailer .10
Fine Mixed. Trailer .10

VERBENA LEMON SCENTED

VERBENA LEMON-SCENTED (Aloysia citriodora). A well-known favorite bedding plant. The Lemon Verbena is a shrub, perennial in our mild climate.
Lavender. Height 8 to 10 ft. .15

VINCA

Rosea (Madagascar Periwinkle). Red. Height 2 ft. .10
Alba. White, with red eye. Height 2 ft. .10
Mixed. Height 2 ft. .10

VIOLA

Cornuta. Resembles the Pansies, and is admirably adapted for bedding purposes. Mixed. Height ½ ft. .10
Odorata (Sweet Violet). Height ¼ ft. .10
White. Height ¼ ft. .10
Prince of Wales. Very large. Height ¼ ft. .10

WALLFLOWER

B. Well known fragrant plant.

Single Mixed. Height 2 ft. .10
Blood-red. Height 1 ft. .10
Belvoir Castle. Dwarf yellow. Height ¾ ft. .10
Double German Mixed. Height 2 ft. .15
Harbinger. Rich blood-red. Height 1 ft. .10

WIGANDIA

WIGANDIA CARACASANA. Plants remarkable for the large size of their leaves; much prized as single specimens for lawns and sub-tropical gardening. Violet. Height 8 to 10 ft. .15

SCABIOSA CAUCASICA

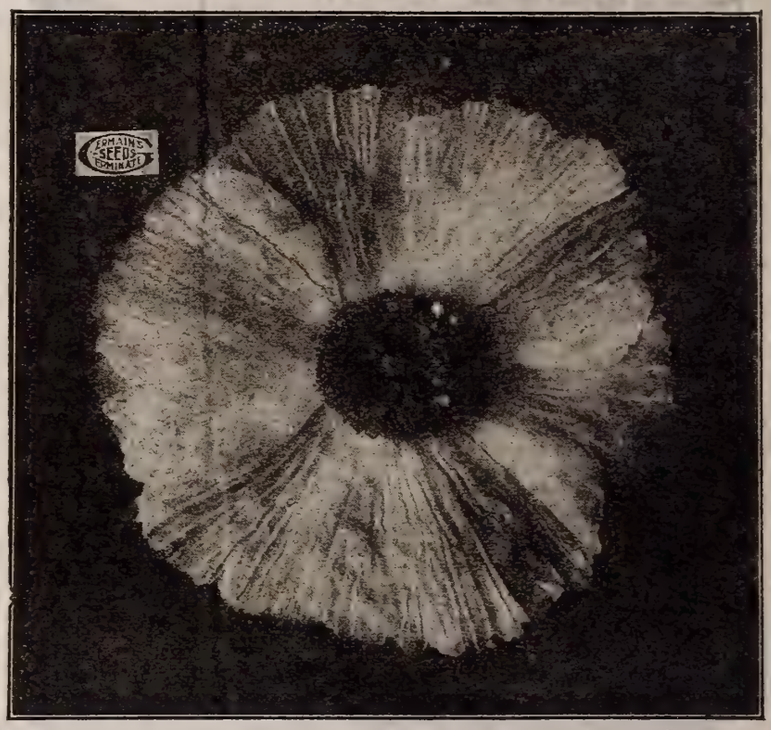
CALIFORNIA NATIVE FLOWER SEEDS

Collections

Souvenir Collection of 15 Choice Varieties of California Native Flower Seeds ..... Pkt. $0.50

Eight Beautiful Varieties of California Poppies, in crimson, yellow, white and shaded sorts ..... Pkt. $0.50

	Pkt.
BLOOMERIA AUREA (Golden Stars). Golden yellow clusters	$0.10
BRODIAEA CAPITATA (Cluster Lily). Pretty, bulbous; flowers early in spring; deep violet to white. Height ¾ to 1 ft	.10
COLLINSIA BICOLOR (Innocence). Shaded white, lilac and rose-purple	.10
DELPHINIUM CARDINALE (Scarlet Larkspur). Magnificent perennial; flowers intense bright scarlet. Height 3 to 5 ft	.10
DELPHINIUM PARRYI (Blue Larkspur). Beautiful annual; flowers bright blue. Height 2 ft	.15
DENDROMECON RIGIDUM ("Tree Poppy"). A shrub, golden-yellow flowers; 4 to 8 feet high	.15
DICENTRA CHRYSANTHA (California Bleeding Heart). Perennial; orange-yellow. Height 3 to 5 ft	.15
DODECATHEON CLEVELANDI (Shooting Star). Perennial; purple, bordered with yellow. Height ¾ ft	.15
EMMENANTHE PENDULIFLORA (Whispering Bells). Bushy annual; small, light yellow, bell-shaped flowers. Height 1 to 1½ ft	.15



ROMNEYA COULTERI

	Pkt.
ESCHSCHOLTZIA. The well-known California Poppy. The Golden West is a fine variety producing very large flowers, of a light canary-yellow color, with an orange blotch at the base of each petal, forming a maltese cross in the center of the flower.	
California. Yellow. Height 1 ft	$0.10
Crimson Flowering. (Burbank's)	.10
Golden West. Canary-yellow and orange. Height 1 ft.	.10
Mandarin. Orange and mandarin red. Height 1 ft	.10
Deep Orange. Height 1 ft	.10
Double Orange Height 1 ft	.10
Rose Cardinal. Height 1 ft	.10
White. Height 1 ft	.10
Double. Height 1 ft	.10
White and Carmine. Height 1 ft	.10
Fine Mixed. All sorts. Height 1 ft	.10
FREMONTIA CALIFORNICA. Flowers bright yellow. (Shrub). 4 to 10 ft. high	.15
LATHYRUS SPLENDENS (Pride of California). Magnificent perennial climbing pea; produces abundant, large, rich crimson flowers in clusters of ten or more. Height 6 to 10 ft	.15
LAYIA CALLIGLOSSA (Tidy Tips). A pretty annual; flowers yellow tipped with white; petals daisy-like, but broader, and with serrate tips. Height 6 to 12 inches.	.10
LAYIA GLANDULOSA (White Daisy). Annual flowers, pure white and daisy-like, but petals broader and with se-rate tips. Height 6 to 12 inches	.10
LEPTOSYNE STILLMANI. A pretty annual, with compact, bushy, thin-cut leaves; flowers golden yellow, 1 inches in diameter. Height 1 ft	.15
LILAC CALIFORNIA. Light blue. (California Soap Plant).	.15
LILAC CALIFORNIA (California Soap Plant). White	.15
LIMNANTHES DOUGLASI (Meadow Foam). Yellow flowers; 4 inches high	.10
LUPINS NANUS. Dwarf. Fragrant; rich blue and white.	.10
MENTZLIA LINDLEYI (Blazing Star). Showy yellow flowers; 2 to 3 ft	.10
NEMOPHILA INSIGNIS (Baby Blue Eyes). Annual; sky-blue flowers. Height 4 to 6 inches	.10
PENTSTEMON SPECTABILIS ("Blue Pentstemon"). Large spike of deep blue flowers; grows to height of 3½ to 7 ft.	.10
PHACELIA PARRYI. Annual. Flowers bell-shaped, dark violet-blue. Height 6 to 12 inches	.10
PLATYSTEMON CALIFORNICUS (Cream Cups). Annual; poppy-like. Height 8 to 10 inches	.10
ROMNEYA COULTERI (Matilija Poppy). The queen of all our native flowers. Perennial. Flowers pure white with golden stamens and 6 to 8 inches in diameter; flowers last well when cut. Height 6 to 10 ft	.10
VIOLA PEDUNCULATA (California Yellow Violet). Sometimes called "The Yellow Johnny Jump-up." A fine little native. Flowers are yellow, blotched with brown.	.15

EVERGREEN TREE AND SHRUB SEEDS

All those varieties quoted at less than 50 cents per ounce we supply at 10 cents per packet. All those quoted at 50 cents and upwards we supply at 15 cents per packet.

ACACIA

Baileyana. A small, handsome tree with glaucous green foliage. Leaves pinnate; three to four pairs, leaflets about twenty pairs 1½ to 2½ lines long, crowded; Flowers in racemes 3 to 4 inches long, yellow. One of the most beautiful of the Acacias; highly recommended for street planting. Height 25 ft. Ounce 60 cents, pound $6.00.

Cultriformis (Knife-leaved Acacia). A distinct and beautiful species of upright growth, forming a large shrub, with glacous green leaves. Height 15 ft. Ounce 50 cts, pound $5.00.

Dealbata (Silver Wattle). Very ornamental. Height 15 ft. Ounce 40 cents, pound $4.00.

Decurrens (Green or Black Wattle). A medium-sized tree of rapid growth, very useful for wind-breaks. Height 30 feet. Ounce 40 cents, pound $4.00.

Floribunda. Ornamental, with very abundant handsome flowers, valuable for lawns, parks, cemeteries, etc. Height 25 ft. Ounce 50 cents, pound $5.00.

Latifolia. A handsome shade tree, succeeding especially well near the seacoast. Leaves broad; yellow flowers. Native of South Africa. Height 40 ft. Ounce 50 cents, pound $5.00.

Linifolia (Flax-leaved). An ornamental shrub, with yellow flowers, growing in heads two to four together. Height 8 ft. Packet 15 cents.

Lophantha (Albizzia Lophantha; Cape or Crested Wattle). One of the most rapid-growing trees, succeeding in most desolate places. Height 25 ft. Ounce 20 cents ,pound $2.00.

Melanoxylon (Blackwood). In sheltered, irrigated glens this tree will reach a height of from 80 to 100 feet, with a trunk several feet in diameter. Ounce 40 cents, pound $4.00.

Mollissima (Green Wattle). An abundant-blooming small tree, very ornamental; suitable for lawns and shrubbery. Height 25 ft. Ounce 50 cents, pound $5.00.

Podalyriaefolia. This is a beautiful shrub, and produces the largest and richest yellow flowers of all the acacias. It is especially recommended for cut flowers. Packet 25 cents.

Pycnantha (Golden Wattle). Of rapid growth, doing especially well near the seacoast, and containing a large quantity of tannin. Height 40 ft. Ounce 40 cents, pound $4.00.

Saligna (Willow-leaved Acacia). Small tree of weeping habit; ornamental. Height 15 to 20 ft. Ounce 40 cents, pound $4.00.

Verticillata. This is a beautiful bushy spreading shrub growing about 12 feet high with spikes of deep yellow flowers. Fine for lawns or groups. Packet 25 cents.

BORONIA MEGASTIGMA. A beautiful little shrub; flowers copper-color, with strong violet odor. Very rare. Seed germinates slowly. Height 2 ft. Packet 50 cents.

BRACHYCHITON ACERIFOLIUM (Flame Tree). Of fine, sturdy, pyramidal growth, with large, handsome foliage, producing masses of scarlet flowers. Height 25 ft. Ounce 50 cents, pound $5.00.

BUXUS SEMPERVIRENS (Evergreen Box). Hardy, dwarf habit, 8 ft. Ounce 40 cents, pound $4.00.

CAMPHORA OFFICINALIS (Camphor Tree). 50 ft. Ounce 35 cents, pound $3.50.

CASUARINA

Quadrivalvis (Coast She-Oak). Very valuable for seacoast culture to prevent the inroads of the sea upon sand hills. Of quick growth. Height 60 ft. Ounce $1.50.

Stricta (She-Oak). Is tougher than the other species; excellent wood for tool handles. Height 30 ft. Ounce $1.50.

Suberosa (Erect She-Oak). A beautiful shade tree. Valuable for fuel. Height 60 ft. Ounce $1.50.

Torulosa (Forest She-Oak). Wood very valuable for timber; also for fuel. Height 75 ft. Ounce $1.50.

CEDRUS DEODARA (Himalayan Cedar). A noble evergreen of pyramidal form. 100 ft. Ounce 75 cents, pound $7.50.

CORONILLA GLAUCA. For hedges. Yellow flowers. Packet 15 cents, ounce 75 cents.

CRYPTOMERIA ELEGANS (Fine-leaved Japan Cedar). Foliage glaucous green. 50 ft. Ounce 75 cents.

Japonica (Japan Cedar). Splendid on lawns. 75 ft. Ounce 75 cents, pound $7.50.

CUNNINGHAMIA SINENSIS. A lofty evergreen resembling the Araucaria, but more feathery. 100 ft. Ounce $5.00.

CUPRESSUS

Arizonica (Blue Cypress). A rapid-growing variety, ornamental for lawns. 50 ft. Ounce 50 cents, pound $5.00.

Goveniana (Goven's Dwarf Cypress). A native variety. Very ornamental. 30 ft. Ounce 50 cents, pound $5.00.

Lawsoniana (Lawson's Cypress). Found in northern California and Oregon. Generally known as Oregon or White Cedar. Height 100 ft. Ounce 50 cents, pound $5.00.

Macrocarpa (Monterey Cypress). Useful for hedges, windbreaks, etc. 50 ft. Ounce 35 cents, pound $3.50.

Sempervirens (Italian Cypress). A European variety, very long-lived, the wood of which is almost imperishable. Height 70 ft. Ounce 50 cents, pound $5.00.

FICUS MACROPHYLLA (Moreton Bay Fig, or Long-leaved Rubber Tree). A magnificent ornamental shade tree, with large, bright, glossy green leaves. Height 100 ft. Ounce $1.50.

GREVILLEA ROBUSTA (Silky Oak, or Australian Fern Tree). A well-known shade tree, with fern-like foliage and orange flowers; of rapid growth and drought resisting to a remarkable degree. Height 150 ft. Ounce 75 cents, pound $7.50. (See cut page 90.)

JACARANDA OVALIFOLIA (Brazilian Jacaranda). A handsome tree with fern-like foliage, and magnificent clusters of light blue flowers. Hardy in this vicinity. Height 30 ft. In pods containing from 30 to 40 seeds. Pod 5 cents.

JUNIPERUS VIRGINIANA (Red Cedar). A well-known American tree. Height 50 ft. Ounce 40 cents, pound $4.00.

HAKEA SALIGNA. A splendid ornamental evergreen shrub-like tree, growing some 12 to 20 feet high, with a broad, dense growth. Of a very bushy habit. Packet 25 cents.

LIBOCEDRUS DECURRENS (California Red Cedar). A very handsome tree, native to the coast range from San Diego to Oregon. Height 100 ft. Ounce 50 cents, pound $5.00.

LIGUSTRUM JAPONICUM (Japan Privet). One of the best hedge plants. Height 12 ft. Ounce 20 cents, pound $2.00.

MAGNOLIA GRANDIFLORA (Large flowering Magnolia). A native of the southern states. Height 100 ft. Ounce 50 cents, pound $5.00. (Seed furnished only during the fall and winter).

PARKINSONIA ACULEATA. A tree that should receive more attention. A wonderful sight when in bloom and a grand lawn subject any time in the year; will grow without water on our driest hills and dales. Native trees. Packet 25 cents.

PINUS

Canariensis (Canary Island Pine). Robust and healthy, bright green foliage. Grows nearly as fast as the Monterey Pine. Height 100 ft. Ounce $1.00, pound $10.00.

Coulteri Macrocarpa (Big Cone Pine). A fine native tree, of very robust growth, with bluish gray leaves a foot in length. Has the largest cone of all pines, sugar-loaf shaped and edible. Height 100 ft. Ounce 50 cents, pound $5.00.

Insignis (Monterey Pine). This well-known native variety is of very rapid growth, and succeeds well in any kind of soil. Height 100 ft. Ounce 50 cents, pound $5.00.

Lambertiana (Sugar Pine). One of our largest native pines, forming a beautiful tree with light brown bark. Height 150 ft. Ounce 40 cents, pound $4.00.

Maritima (Seaside Pine). Well adapted for planting near the sea. Height 60 ft. Ounce 15 cents, pound $1.50.

Parryana (Mexican Pinon). A small-growing pine, native of Lower California mountains, withstanding considerable drought; a very fine pine. Ounce 50 cents, pound $5.00.

Ponderosa (Yellow Pine). A native variety found at a high altitude. Specimens have been found 300 feet high and 15 feet in diameter. Height 250 feet. Ounce 40 cents, pound $4.00.

Sabiniana (Digger Pine). Found in the hot interior foot-hills of Southern California; low-branching habit, light gray, glacous foliage; seeds edible. Known to the natives as Pinions or Digger Pine. Ounce 40 cents, pound $4.00.

Torreyana. One of the most beautiful of our native Pines. A fine specimen may be seen in cultivation in the Hotel Green grounds at Pasadena. Height 50 ft. Ounce 50c, pound $5.

PITTOSPORUM

Eugenioides. A valuable evergreen for lawns, parks or cemeteries. Is suitable for tall garden hedges. From South Australia. Height 20 ft. Ounce 75 cents.

Nigricans. Dark brown. Height 10 ft. Ounce 75 cents.

Undulatum. A medium-sized tree with deep green glossy leaves and sweet-scented white flowers. Makes a fine hedge. Per pkt. 15c. Per oz. 75c.

POLYGALA GRANDIFLORA. A very desirable flowering shrub. Very free-blooming and ornamental. Packet 25 cents.

SCHINUS MOLLE (Mexican Pepper Tree). See cut page 90. A well-known handsome shade-tree, with light feathery foliage and bright scarlet berries. Hgt 50 ft. Oz. 10c, pound $1.

SCIADOPYTIS VERTICILLATA (Japan Umbrella Pine). Curious and remarkable. Leaves are a dark glossy green, crowded into whorls at the joints of horizontal branches. Very ornamental. Height 60 ft. Ounce 75 cents, pound $7.50.

SEQUOIA

Gigantea (California Big Tree). Biggest of trees, and long lived. Height 300 ft. Ounce $1.00, pound $12.00.

Sempervirens (California Redwood). Wood reddish, soft, close veined, easily split, light and brittle, but very durable. It luxuriates in the cool dampness of sea fogs. Ornamental for lawns or parks. Height 200 ft. Ounce 50 cents, pound $5.00.

EVERGREEN TREE AND SHRUB SEEDS

STERCULIA

Diversifolia (Brachychiton populneum). A handsome tree of erect symmetrical growth. The leaves vary much in shape, some poplar-like, others ivy-shaped, others slightly or deeply cut. The finest street tree for Southern California and is being very extensively planted. Height 60 ft. Ounce 60 cents, pound $6.00.

Platanifolia (China Parasol Tree). Very ornamental, with large, plane-like leaves. An excellent tree for avenue or park planting. Height 40 ft. Ounce 50 cents, pound $5.00.

TELOPEA SPECIOSISSIMA (Waratah, or Australian Tulip). One of the most showy shrubs introduced. Flowers crimson-scarlet, in large heads. Height 8 ft. Packet 25 cents.

THUJA

Aurea (Golden Arborvitae). A dwarf Chinese variety, compact, globular in shape; top foliage yellowish green; for lawns, cemeteries, etc. Ht. 10 ft. Short crop.

Aurea semper-aurea (Ever Golden Arborviter). Dwarf habit and free growth. Retains its golden color the year round. One of the prettiest dwarf evergreens. Height 8 ft. Short crop.

Compacta (Compact Ardorvitea). Handsome, compact, globular form. Height 5 ft. Ounce 50 cents, pound $5.00.

Occidentalis (American Ardorvitea or White Cedar). A common and well known tree, native of the Atlantic states. Height 50 ft. Ounce 50 cents, pound $5.00.

Orientalis Chinese Arborvitea). A small, elegant tree, peculiar from its flattened branches, which are dence and light green in color. Valuable for planting on lawns. Height 10 ft. Ounce 40 cents, pound $4.00.

VIBURNUM TINUS (Laurustinus). Fine winter flowering shrub, blooming abundantly during the winter. Also a valuable hedge plant. Height 8 ft. Ounce 25 cents, pound $2.50.

EUCALYPTUS TREE SEED

DIRECTIONS FOR RAISING SEEDLING EUCALYPTUS

Sow seed in spring or late summer in shallow boxes in a light sandy soil with plenty of drainage at the bottom of each box. Cover the seed lightly and protect from the hot sun, but allow plenty of air; water often, but sparingly, especially after seedlings appear, for if too much water is given at one time they will be liable to damp off. When the seedlings are two or three inches high transfer to shallow boxes, placing about 1½ inches apart each way, and when large enough transplant to where they are to remain, and water well the first year. The strong growing kinds can be sown in August, September and October, and are ready for planting out early in spring. Slower kinds, as Eucalyptus amygdalina, etc., sow in spring. One pound of seed will produce from 10,000 to 30,000 trees. All varieties put up in 15 cent packages. Special price in quantities.

EUCALYPTUS

Amygdalina (Messmate Gum). Belonging to this variety are the tallest tree in the world. Making first-class timber for flooring boards, scantling, etc.; well suited for avenue planting. Yields more essential oil than any other variety. Height 400 ft. Ounce 75 cents, pound $4.00.

Botryoides (Bangalay). A stately tree, stems attain 70 or 80 feet without a branch, and a diameter of 6 feet. Timber very durable. Posts from old trees known to last for over 25 years. Will thrive in soil containing stagnant water and near the sea coast on light soil. Ounce 75 cents, pound $8.00.

Calophylla. Ornamental, of rapid growth, with large clusters of cream-colored flowers. Its profuse bloom makes it an important source of nectar for bees. Timber also valuable for carpentry above ground. Height 50 ft. Ounce $1.00.

Citriodora (Lemon scented Gum). A fine ornamental tree with lemon-scented foliage, supplying also a useful timber. More tender than most other kinds. Height 80 ft. Per ounce $2.00.

Cornuta (Yate Tree). A rapid growing variety, it endures a high temperature, but will not stand frosts. Wood very durable. Recommended for alkali land and thrives where other varieties perish. Height 100 ft. Per ounce $1.00.

Corymbosa (Blood Wood). Wood of dark red color, easily worked while fresh, but when dry becomes very hard. Useful for fence posts and railroad ties, being durable under ground. Of little use for saw purposes. Height 100 ft. Ounce $1.00.

Corynocalyx (Sugar Gum). Very ornamental, rapid growing, with dark green leaves. Timber very durable and used for railroad ties as it lasts remarkably well underground. Valuable as a timber tree. Its growth is remarkably straight and perfect; withstands more drought than most varieties. Height 100 ft. Ounce $1.00, pound $9.00.

Creba (Narrow-leaved Iron-bark). Wood reddish, heavy, elastic and durable, is ant and teredo proof. Useful for railroad ties, bridges and piles. Height 100 ft. Per ounce $1.00.

Diversicolor (Karri Gum). From Southwest Australia. A tree of remarkable beauty, perfect shape, rapid growth, and splendid for street planting. Furnishes good timber for masts, shafts, fence rails, etc. Not recommended for dry localities or places. Height 300 ft. Ounce $2.00, pound $16.00.

Ficifolia (Scarlet flowering Gum). The most ornamental of the family. Flowers bright crimson and above the foliage. Height 20 ft. Per 25 seeds 25 cts, 100 seeds 85 cts.

Globulus (Tasmanian Blue Gum). Well known; one of the most useful and a very rapid grower. Planted in warm countries on account of its malaria destroying qualities. Remarkably good for fuel, being easily split. Extensively planted for timber having been used for piles in wharves with very satisfactory results. Height 150 ft. Per ounce 75 cents, pound $7.50.

Goniocalyx (New South Wales Blue Gum). Wood very durable, hard and tough. Much used by wheelwrights. A rapid grower. Height 200 ft. Per ounce $1.00.

Gunnii (Tasmanian Cider Tree). Probably the hardest of the genus. Will stand a considerable amount of frost. Recommended for all elevated and exposed positions. Good for fuel. Height 80 ft. Per ounce $1.00, pound $10.00.

Haemastoma (White Gum). Good for fencing and rough building material; also makes a fair fuel. It thrives near the sea coast on sandy soil, but is not suited to the dry interior. Height 150 ft. Per ounce $1.00, pound $12.00.

Hemiphloia (Common Box). Wood very hard, strong and durable. It thrives at and near the coast, on the foothills and in the dry, hot valleys of the interior. Timber used for wheelwrights, handles, etc. Makes a first-class fuel. Height 100 ft. Per ounce 75 cents.

Leucoxylon (Victorian Ironbark). Hard, strong, excels hickory in strength. Recommended for underground work in mines, for railroad ties, bridges, etc. Height 100 ft. Per ounce $1.

Longifolia (Woolly Butt). A large tree, of great girth, growing well in any soil. Timber is durable and makes excellent fuel. Height 200 ft. Per ounce 75 cents.

Maculata (Spotted Gum). Wood as strong as English Oak. Extensively employed in shipbuilding and wheelwrights' work. Height 100 ft. Per ounce $1.00.

Melliodora (Yellow Box). Of spreading growth, with a comparatively stout stem, makes good fuel. The young trees are largely used for telegraph poles, and the flowers are much sought by bees. Height 120 ft. Per ounce $1.25.

Obliqua (Stringy Bark). A quick grower at or near the coast and some distance inland, but does not thrive in the hot interior. Best wood for flooring, scantling and shingles; makes the best charcoal for the forge. Height 00 ft. Per ounce 75 cents.

Obtusifolia (Yellow Black Butt). A rapid growing variety, very good fuel. Also used for staves, coopers' and wheelwrights' work. Height 120 ft. Per ounce 75 cents.

Paniculata (White Ironbark). Wood hard and durable, excellent for railroad ties or for fencing. It splits well and is lasting underground. Height 100 ft. Per ounce 75 cents.

Pilularis (Black Butt). Of rapid growth. One of the best timber-yielding species, used for flooring boards, railroad ties and telegraph poles. Height 300 ft. Per ounce $1.00.

Piperita (Peppermint Gum). Valuable for shingles, fence rails, etc. Yields a great quantity of oil, and is of remarkably quick growth. Height 300 ft. Per ounce $1.00, pound $10.00.

Polyanthema (Australian Beech or Red Box). Excellent fuel. Thrives in temperate and cold climates; succeeds in dry, hilly country. Height 150 ft. Per ounce 75 cents, pound $9.

Regnans (Royal Mountain Ash). A very scarce variety, growing to a large size, and very hardy. Grows on the hill slopes of the Australian Alps, near the snow line. Timber durable and excellent for fuel. Height 200 ft. Per ounce $1.25.

Resinifera (Forest Mahogany). A superior timber of large size, prized for its strength and durability. Suitable for tropical likewise cool climates near the coast. Fine for interior house work. Height 100 ft. Per ounce $1.00.

Robusta (Swamp Mahogany). Thrives best on low grounds, especially near the sea coast. A remarkably healthy, robust variety. Height 100 ft. Per ounce 75 cents, pound $8.00.

Rostrata (Red Gum). Unsurpassed for durability; used for railroad ties, street pavements, shipbuilding, cabinet work etc. Height 200 ft. Ounce 50 cents, pound $5.00.

Rudis (Desert Gum). Valuable for arid regions, withstanding heat, cold and winds; unsurpassed by any other variety. Height 100 ft. Per ounce $1.00, pound $10.00.

Saligna (Weeping Gum). Very ornamental. Leaves and general habit are like the "Babylonian Willow." Prefers alluvial soil. Good for fuel Height 75 ft. Per ounce $1.00.

Siderophloia. (Dark or Broad-leaved Ironbark). Wood very hard, light colored and heavy, of great strength and durability, and is used for railroad ties, spokes, shingles, bridges, jetties, etc. It is stronger than hickory. Also used for fuel. Height 150 ft. Per ounce $1.00.

Sieberiana (Virgata) (Mountain Ash). Wood strong and elastic. Used for all purposes where hickory or ash are at present used. Excellent fuel. Grows on mountain tops and stony ridges. Height 150 ft. Per ounce $1.00, pound $12.00.

Stuartiana (Apple-scented Gum). Thrives on any soil. Wood very dark and takes a good polish. Useful for cabinet work good fuel. Height 100 ft Per ounce $1.00.

Tereticornis (Gray Gum). A very handsome, large growing variety. Wood durable and useful for shingles, flooring, etc. Also an excellent fuel. It grows near the coast. Height 200 ft. Per ounce 75 cents, pound $9.00.

Viminalis (Manna Gum). A hardy, rapid-growing variety, and well suited for exposed situations. It grows to a gigantic size. It is mostly planted for forest cover, wind breaks and for shingles and rough building material; also used for fuel. Height 300 ft. Per ounce 75 cents, pound $7.50.

☞ The Plant Section [92] immediately follows these pages

DECIDUOUS TREE AND SHRUB SEEDS

All varieties 10 cents per packet.

CALYCANTHUS FLORIDUS (Carolina Allspice). Remarkable for the scent of its flowers, which resembles that of the ripe fruit. Will grow in almost any soil. Flowers brown. Height 4 ft. Ounce 35 cents, pound $3.50.

CAPPARIS SPINOSA (Caper Tree). A flowering shrub with handsome blush color flowers. The undeveloped flower-buds are the true capers of commerce. Height 3 ft.

CATALPA SPECIOSA (Indian Bean Tree). A rapid-growing tree, good for timber claims. Flowers white and purple. Height 50 ft. Ounce 60 cents, pound $6.00.

CERATONIA SILIQUA (St. John's Bread). The Carob or Locust Tree of Scripture, with yellow flowers and edible saccharine pods. Height 30 ft. Ounce 25 cents, pound $2.50.

FRAXINUS VELUTINA (Arizona Ash). Used through the arid West as a shade and street tree of remarkably quick growth and stands the heat and dryness well. Ounce 50 cents.

GLEDITSCHIA TRIACANTHOS (Three-horned or Honey Locust). Hardy and of rapid growth. Will form an impenetrable hedge. Seeds should be soaked in boiling water before sowing. Height 60 ft. Ounce 20 cents, pound $2.00.

MACLURA AURANTIACA (Osage Orange). A well-known hedge plant. Height 40 ft. Ounce 20 cents, pound $2.00.

MELIA AZEDERACH SPECIOSA (Texas Umbrella Tree). Of very rapid growth, with leaves and wood resembling the ash; durable and makes excellent fuel. Thrives in dry soils. Height 40 ft. Ounce 15 cents, pound $1.00.

PAULOWNIA IMPERIALIS (Empress Tree). Very rapid-growing forms a broad flat head. Flowers violet, trumpet-shaped and fragrant. Height 30 ft. Ounce 50 cents, pound $5.00.

PRUNUS SEROTINA (Wild Black Cherry). A fine ornamental tree having the appearance of the wild plum of California. Very hardy, fine lawn subject. Ounce 25 cts., pound $2.50.

ROBINIA PSEUDACACIA (Yellow or Black Locust). Well known in this section; valuable for fuel and timber. Fine tree with which to plant timber claims. Height 60 ft. Ounce 25 cents, pound $2.50.

SYRINGA

Vulgaris (Purple Lilac). The common variety. One of the best; flowers and young foliage fragrant. Height 15 ft. Ounce 35 cents, pound $3.50.

Vulgaris alba (White Lilac). One of the best white varieties. Height 15 ft. Ounce 35 cents, pound $3.50.

VIBURNUM OPULUS (Snowball, or Guelder Rose). An interesting shrub, with compact heads of snowy-white flowers. Height 15 ft. Ounce 35 cents, pound $3.50.

PALM SEEDS

CHAMAEROPS. The various species of Chamaerops are found scattered through southern Asia, northern Africa, semi-tropical North America and the South of Europe. Leaves fan-shaped; fruit a one-seeded berry.

Canariensis. A handsome palm worthy of cultivation, either for lawn or for pot culture; 10 seeds 15 cents, 100 seeds $1.00.

Excelsa (Hardy Fan Palm). This palm grows to the height of from 20 to 30 ft.; leaves fan-shaped; trunk enclosed by a dense mass of rough fibers. Native of the East Indies. Ounce 15 cents, pound $1.50.

Humilis (Dwarf Fan Palm). An extremely handsome plant. Very fine and well worthy of cultivation. Native of southern Europe. Ounce 20 cents, pound $2.00.

COCOS PLUMOSA. Tall graceful growing Palm. 10 seeds 25 cents, per 100, $2.00.

ERYTHEA

Armata (Brahea glauca) Blue Palm. Elegant Fan Palm, from the islands of Lower California. Leaves glaucous blue. Hardy; 10 seeds 25 cents, 100 seeds $2.00.

Edulis (Brahea edulis). A rapid-growing variety from the Guadalupe Islands. Fan-shaped leaves, bright green. Hardy; 10 seeds 15 cents, 100 seeds $1.00.

PHOENIX

Canariensis. An elegant hardy variety of the Date Palm, much used around Los Angeles on lawns. Handsome and durable; 10 seeds 10 cents, 100 seeds 50 cts.

Dactylifera. The Date Palm; is an erect, handsome palm. Native of northern Africa and tropical Asia, where the palm attains a height of 80 ft. Lives to a great age, and yields the date fruit of commerce. Hardy; ounce 20 cents, pound $1.50.

Reclinata. A very fine, large-growing species; leaves pinnate. Will stand severe frosts. A native of the Cape of Good Hope. Hardy; 10 seeds 15 cents, 100 seeds $1.00.

Tenuis. This is a very hardy, elegant and desirable variety of Date Palm, with long, bright sea-green leaves; much used for lawn planting; 10 seeds 15 cents, 100 seeds $1.00.

SEAFORTHIA ELEGANS. One of the most elegant of the palm family, and one of the finest subjects in cultivation for the conservatory, greenhouse or subtropical garden. Height 20 ft. Leaves from 2 to 10 feet in length; dark green. It stands quite a low temperature. Native of New South Wales; 10 seeds 15 cents, 100 seeds $1.00.

WASHINGTONIA

Filifera. The well-known California Fan Palm, also known as Pritchardia filamentosa and Brahea filamentosa; very hardy. Ounce 10 cents, pound $1.00.

Robusta. A robust Fan Palm, similar to W. filifera, but with smoother and darker green leaves without threads. Ounce 25 cents, pound $2.50.

DECORATIVE PLANT SEEDS

AGAVE. Six fine varieties, viz., American fol. var. Densiflora, Deserti, Heteracantha, Univittata and Verchaffelti. Each, packet 15 cents. The collection of six varieties for 75 cents.

DRACAENA

Australis (Cordyline indivisa). Palm-like tree growing to a considerable height; stem is stout; leaves 2 to 3 feet in length, oblong, lanceolate, bright green; splendid for avenues. New Zealand. Packet 15c ts., ounce 75 cts.

Indivisa (Cordyline indivisa). Sometimes called Dracaen stricta. A most graceful palm-like tree, suitable for decoration. New Zealand. Ounce 35 cents, pound $3.50.

MUSA ENSETE (Abyssinian Banana). Native of Abyssinia. This magnificent plant attains a height of 30 feet, the leaves occasionally reaching a size of 20 feet in length by 3 in breadth. Produces no suckers and requires several years to come into flower; dies off like the Sago Palm, the Caryota Palm, and others which flower but once. 10 seeds 30 cents, 100 seeds $2.00.

YUCCA. Six fine varieties, viz., Aloefolia fol. var., Augustifolia, Filamentosa Quadricolor, Tricolor and Whipplei. Each, packet 15 cents, the collection of six varieties for 75 cents.

Quadricolor. A large and magnificent kind. The upper surface creamy yellow, in the center tinged with crimson and orange-yellow. Mexico; hardy; 100 seeds 25c, 1,000 seeds $2

FRUIT TREE SEEDS

APPLE, PEAR and QUINCE. The seeds may be planted any time during the winter or early spring. Soak the seeds in tepid water for three days, change the water daily or soak in cold water for eight or nine days. Sow in drills 2 feet apart.

ALMOND, HARD-SHELLED (Prunus amygdalus communis). Pound 60 cents, 100 pounds, market price.

APPLE, FRENCH CRAB. Superior stock. Ounce 25c, pound $2.50.

APRICOT (Prunus Armeniaca). Price on application.

CHERRY, PLUM, PEACH, ALMOND, etc. Follow the cultural directions for the walnut. When young plants appear above ground, plant in nursery rows 3 feet apart.

CHERRY MEHELEB (Cerasus communis). Ounce 20c, lb. $2.00.

LOQUAT (Eriobotrya Japonica). Seed supplied in season. Procurable only in spring. Ounce 10 cents, pound 60 cents.

PEACH (Prunus amygdalus Persica). Cannot supply.

PEAR (Pyrus communis). Ounce 50 cents, pound $5.00.

PLUM (Prunus communis). A splendid stock to graft on. Ounce 25 cents.

QUINCE (Cydonia communis). Quinces occasionally vary from the seed variety. The stock is much used for budding and grafting the pear. Ounce 50 cents, pound $5.00.

WALNUT. Plant in beds, during the winter or spring, covering about 1 inch deep, and kept moist, but not until they germinate, which will be in about three or four weeks, according to the temperature. As soon as they crack and show the sprout transplant to the nursery rows, 4½ to 5 feet apart and 6 inches apart in the row. They will grow the first year without irrigation, 6 to 12 inches, and with irrigation, 8 inches to 4 feet; the second year, from 4 to 8 feet, with irrigation. If ordered by mail, add 10 cents per pound to cover postage. Prices subject to fluctuation. Quotations for large quantities will be given on application.

WALNUT, SOFT SHELLED (Juglans regia). A superior variety. Pound 60 cents, 100 pounds on application.

WALNUT (Black California). Black Walnut is the most desirable stock for grafting the English variety. Price 15 cents per pound. Special quotation in large quantities.

SMALL FRUIT SEEDS

CURRANT, BLACK. Pkt. 10 cents, oz. $1.50.

Red. Pkt. 10 cents, oz. $1.50.

Large Mixed. Pkt 10 cents, oz. $1.50.

GOOSEBERRY. Large English Mixed. Pkt. 25 cts., oz. $5.00.

GUAVA, STRAWBERRY (Psidium Cattleyanum). Sow in boxes and transplant when 2 inches high to pots. Pkt. 10 cents, oz. 50 cents, pound $5.00.

GUAVA, PINEAPPLE (Feijoa Sellowiana). A highly perfumed fruit about 1½ inches in length. Blossoms in May and fruits in November. A delicious pineapple flavor, lacking the acid. Fine for jelly or jam. Sow in boxes and transplant. Seed ready in December. Price per packet 25 cents.

RASPBERRY, FINEST SORTS MIXED. Pkt. 10 cts., oz $1.50.

ROSELLE. The plants grow from 3 to 6 feet high and bear an abundance of handsome flowers, followed by fruit enclosed in a thick, fleshy calyx from which is made an excellent jelly resembling, but an improvement upon that made by the black currant; 10 cents a packet, 75 cents per ounce.

STRAWBERRY, LARGE MIXED. Pkt. 10 cents, oz. $1.50.

Red Alpine. European wild strawberry. Pkt. 10 cts, oz. $1.50.

NURSERY DEPARTMENT

FOREWORD

We take pleasure in presenting to you the plant section of our 1921 catalogue. Contained in the various pages which we have devoted to trees, plants and shrubs will be found a collection of stock of the very finest quality which it is possible to produce.

Aside from the quality of the plants it is replete with many fine novelties. We direct your attention to the superb new Roses which we are offering for the first time this season. They are varieties which should be in every rose garden. They offer a distinct advance by way of color, form, etc.

Our collection of Roses, herbaceous and perennial plants is one of the most up-to-date in this section of the country. The new Iris, Phlox, Pelargoniums, Chrysanthemums and numerous other classes of plants to be found in the following pages are well worthy of your attention. If you desire to obtain the best results in your gardening efforts we believe you will find a careful perusal of these pages well worth while.

There is one matter to which we desire to call the attention of our customers. It is this—during the past few years the overhead cost in the maintenance of our nursery department has greatly increased, in common with almost every other line of business. The tremendously increased cost in labor, packing materials and the various other incidentals that apply to preparing a shipment in proper form so that it will reach the customer in good condition, makes it necessary for us to place a minimum on the size of the order that we can profitably ship. In former seasons we received many plant orders for small sums ranging from 10c, 20c, 35c, etc., wherein the actual cost of packing material and the labor involved consumed all the profit, and in fact, entailed a loss in the handling of the orders.

As a result, therefore, we will not be able to fill shipping orders for plants wherein the order amounts to less than $1.00. We feel that we are entitled to a legitimate profit for the tremendous amount of labor we are obliged to expend in the packing of plants. We would state, however that this rule does not apply to plants which are delivered locally from our store.

In connection with our new retail location in the Kerckhoff Bldg. at Sixth and Main Sts. Los Angeles, we have instituted a rather novel nursery section, a photograph of which we are showing. The novelty of an indoor greenhouse is at once unusual and at the same time adds a rare touch of beauty to a mercantile establishment.

Here we attempt to display plants of all descriptions in a setting which sets them off to advantage, giving one an idea of the many ways of beautifying the indoor and outdoor sections of the home. We attempt also to keep in touch with the new developments in the introduction of new types and varieties, so that we can offer the latest novelties each season.

SHIPPING Express shipments of Nursery Stock travel under what is known as the "General Special" Rate, which is 20 per cent less than the first-class rate. We would advise having small shipments go by express, for while the cost is somewhat more than by freight, the difference is often more than made up by the prompt delivery and careful handling.

NON-WARRANTY. We exercise the greatest care in the selection, packing and labeling of plants and trees, but give no guarantee, express or implied, as to their growth, productiveness, quality, or any other matter of any trees, plants or seeds that we send out, and will not be in any way responsible for crops. If the purchaser does not accept the goods on these terms, they must be returned at once.

SUBSTITUTION. Where particular varieties are ordered and particular ages and sizes of trees, kinds of stock, etc., it should be stated whether and to what extent substitution will be allowed in case the order cannot be filled to the letter. Where no instructions in this respect accompany the order, we shall feel at liberty to substitute other varieties as nearly similar as possible. If the selection of varieties is left entirely to us, we shall endeavor to send only such sorts as are acknowledged to give general satisfaction.

AS USUAL, six of any one certain variety, will be furnished at doz. rates; 50 at 100 rates; 500 at 1,000 rates.

CLAIMS. Should any errors occur we desire to be informed upon receipt of goods, that we may rectify them without delay. All claims must be filed within ten days after the arrival of shipments. No plants shipped C. O. D.

CAUTION. Be careful in unpacking to note everything, and either plant, or cover up with moist soil at once. Moisten the roots, and do not allow them to become dry.

PLANTING. Dig holes large enough to allow the roots of the tree to spread out in their natural position, carefully placing the finest and best soil from the surface in among the roots; when the soil is nearly filled in, throroughly settle the earth by filling the hole with water; after it settles, fill in the remainder of earth. In most soils, the use of water to settle the earth is much better than treading the soil with the foot.

AFTER CULTURE. The ground should be kept loose and free from weeds. It is advantageous in a dry climate to throw around the tree, for a distance of two or three feet each way, a mulch of rough manure or litter It prevents the ground from drying out and baking.

PLANT AND SEED ORDERS should be kept separate, as during our rush season we may run short of some varieties of plants or trees and this sometimes causes a slight delay in receiving consignments from our various growing grounds. The rush of business is terrific during the winter and spring in the Nursery Department and orders cannot always be shipped at once. With our present facilities we hope to have but few delays in filling orders, but in cases where the nursery stock cannot be shipped at once, the seed orders will be shipped at once, and balance of order will follow when ready.

Germain's Choice Novelties and Specialties in Flowering Plants and Shrubs for the Season of 1921

Contained under this heading will be found many plants and shrubs of excellent value for California gardens. They have been tested and tried, and their value to this section of the country has been thoroughly proven.

In addition to these, there will be found on the following pages a complete list of other choice stock, both of flowering and decorative character. We call your attention particularly to our list of Roses.

TWO MAGNIFICENT NEW BOUGAINVILLEAS

"PANAMA"

It is not often that we are able to offer our customers such a sensational novelty as this magnificent new Bougainvillea. The original stock from which our plants were propagated was found growing on the Isthmus of Panama.

The color is a distinct shade of vermilion crimson. The bracts are of enormous size, the foliage and growth quite as strong as the variety Spectabilis. It has the additional quality of flowering without intermission almost throughout the year. There is nothing we know of in the way of flowering climbing plants which can equal in beauty the general effect of this superb new Bougainvillea. We only have a few plants for distribution this year. Strong plants from three-inch pots, each $3.50.

MAUD CHATTLEBURGH

Another handsome Bougainvillea of a rich royal purple shade. It has none of the objectionable magenta shadings such as are seen in the varieties Sanderii, Glaubera, etc. This variety undoubtedly has the largest bracts of any Bougainvillea in existence, in addition to which it produces a profusion of flowers hitherto unknown in this class of plants. The trusses of bloom are often four to five feet long with a diameter of one to two feet. This superb Bougainvillea should be in every garden. It is a fine companion to the foregoing variety. This is the first time that plants have ever been offered in America. Extra strong stock from three-inch pots, each $2.50.

Novelties for 1921

Germain's New Tuberous Rooted Begonias

GERMAIN'S PRIZE SINGLE BEGONIAS

This section contains a wide range of colors. The series is replete with wonderful shades of orange, rose, carmine, crimson, pure white, and salmon, and includes besides the self colors noted above, some handsome variegated forms. Well grown plants of this strain will produce flowers ranging from 5 to 6 inches in diameter, the petals unlike the crested and frilled Begonias in the section noted above have smooth, rounded petals; in fact, the blossoms are almost circular in form. For bedding purposes these Begonias are absolutely unexcelled. The immense blossoms are borne erectly on stout stems, well above the foliage. If you have a shady bed and desire something of an unusual brightness for Summer, a bed of these Begonias will certainly please you. Strong pot grown plants ready for delivery *May 1st,* each 35c, per dozen $3.50.

GERMAIN'S NEW SINGLE FRILLED TUBEROUS-ROOTED BEGONIAS

A superb new strain of single Begonias bearing throughout a long period, usually extending from May until November, an endless succession of handsome frilled mammoth sized blooms. In this splendid strain the margins of the petals are beautifully waved, crimped or crinkled, the character of which is well shown in the accompanying engraving. The blossoms are borne on strong, stout stems and attain a diameter of 5 to 6 inches. The color series in this new class is one of matchless beauty, ranging from the purest snowy white through all the various shades of yellow, orange, salmon, rose, pink, and carmine to deepest crimson. As bedding plants for shady locations these Begonias will prove of great value. If proper conditions are accorded them in regard to soil, moisture, etc., they are as easily grown as Geraniums and far more showy. The cut flowers are of dainty effect in vases, for interior decoration.

Our Bulbs have been carefully selected from the very finest frilled types—every one a gem. We can supply the Tubers in dormant condition from January to the end of April, after that period they will be supplied as growing plants in pots. Price of dry bulbs or pot grown plants 50c each, $5.00 a dozen.

NOTE: We strongly recommend that our customers place their orders for the growing plants in pots. There is no extra charge for these and results with ordinary treatment are absolutely assured. To those living at great distances, where the shipment of growing plants is impractical, orders should be filled with the dormant Tubers, as above noted, between the months of January and April.

GERMAIN'S PRIZE DOUBLE BEGONIAS

A grand type of the double tuberous-rooted Begonias—the flowers are not only of immense size, but ideal as to shape. Many are camellia shaped form and others wherein the petals are more after the style of a perfect rose. The blossoms attain a diameter of 5 inches. These Begonias, although of an ultra refined type, are as easily grown as either of the other two varieties noted on this page. Price of 3-inch plants, ready for delivery from 3-inch pots, each 50c, per dozen $5.00.

Novelties for 1921

NEW HYBRID GERBERAS

Transvaal Daisies

Among various herbaceous perennials of recent introduction, we doubt if anything can exceed in beauty these beautiful new vari-colored Transvaal Daisies. The flowers are not unlike a large Marguerite, are borne on stems 18 inches to 2 feet long and occur in a wide range of colors, running from pure white to dark crimson, with the intermediate shades of orange, yellow, salmon, carmine, pink, etc. Aside from their beauty as bedding or flowering plants, they are of exquisite value for cut flower purposes. The blossoms last fully a week in water. We have a splendid stock of strong, young, field-grown plants, in all shades of color. We can only supply the colors in mixture, but all are beautiful. Price, each 50c, per dozen $5.00.

NEW HYBRID GERBERAS

TWO SUPERB NEW IRIS

It is with pleasure that we draw the attention of our customers to these two superb new Iris. They are new hybrids of the Pallida type and are characterized by their immense flowers and strong foliage. There is not a State in the Union where these Iris will not thrive. They withstand the coldest conditions of the Northern section of our country and yet do equally well where subjected to the drying conditions of a desert climate—the only requisite to complete success being an abundance of moisture given them during their growing period, and a good rich soil in the beds where they are to be planted. They are of splendid value for cut flowers, aside from their use as ornamental flowering plants in the garden.

CATERINA—Words are inadequate to describe the beauty of this grand Iris—it is a Pallida hybrid raised by Sir Michael Foster, a famous English hybridist of Iris. It is unquestionably one of the tallest and most majestic of all recent introductions. The foliage is broad and 3 to 4 inches high. The flowers are of immense size, producing eight and ten to a single stem, the stems frequently attaining a height of 5 feet. The blossoms are a beautiful shade of sky blue, uniform in color both in the falls and standards. In our opinion this is one of the finest Iris in existence. It should be in every garden where flowers are grown and appreciated for their beauty and worth. price, each 50c.

PARISIANA—A hybrid Iris of the Pallida type, with very large flowers and of a unique shade of color; standards, mottled lavender pink, falls creamy white suffused with lavender pink. While the blossoms are not so large as to be noted in the Caterina, its color is a noted advance in this new class of Iris. Price, each 50c.

NEW GIANT PRIMULA OBCONICA

Among Winter and Spring flowering plants, there are but few more satisfactory or more easily grown than these new Giant Primroses. The plants begin to bloom in early Autumn and continue without intermission until the end of Spring, furnishing throughout that portion of the year, when flowers are scarce, an uninterrupted display of bloom. The strain which we are offering you this season are the Ne Plus Ultra in this class of plants. They possess handsome foliage and bear innumerable stems of large handsomely colored blooms. The colors range from purest white, through all the shades of rose, crimson, carmine, etc. Aside from their value as plants for growing in pots they do splendidly when bedded in a shady position. Fine strong plants, which will bloom in a short time, each 25c, per dozen $2.50.

NOTE: These plants can only be supplied from October until May.

Novelties for 1921

OUR SENSATIONAL NOVELTY FOR 1921 NEW ANEMONE FLOWERED DAHLIAS

This grand new class of Dahlias marks one of the most distinct breaks ever noted in this class of popular plants. In addition to the seed, which we are offering on page 66, we will be in a position to supply our customers with green plants of this grand novelty from April 15th to July 1st. For full descriptive matter and engraving showing the character of this new strain, see page 66. Price of plants, each 50c, per dozen $5.00.

GLOXINIAS GERMAIN'S PRIZE MIXED

A superb strain of new giant flowered Gloxinias, containing a wonderful variety of colors, or combination of colors. The strain is of the true crassifolia type wherein the leaves are reflexed, almost completely hiding the pots, with the blossoms borne erect on stout stems, the nature of the plant being of a splendid dwarf or compact habit. In this new class hardly any two of the blossoms are alike in color; they range from purest white through all the various shades of pink, rose and purple, many of the flowers being handsomely spotted, veined or distinctly mottled. The plants are easily grown and they blossom without intermission from early Summer until late Fall. They may be grown to perfection in an ordinary living room, are ideal for table decoration or other decorative work of similar character. A feature of this strain is the enormous size of the blossoms, often attaining a diameter of 4 inches or over. For the convenience of our customers, these plants will be sent out as growing plants from 3-inch pots from May 1st on. Price, each 35c, per dozen, $3.50.

NEW GIANT FLOWERING COLUMBINES

A grand strain of giant flowering long-spurred Columbines in a color series of matchless beauty. Columbines are splendid as cut flowers or for the production of masses of color in the garden. We have made a series of selections to color and although not entirely fixed a very high percentage will come true.

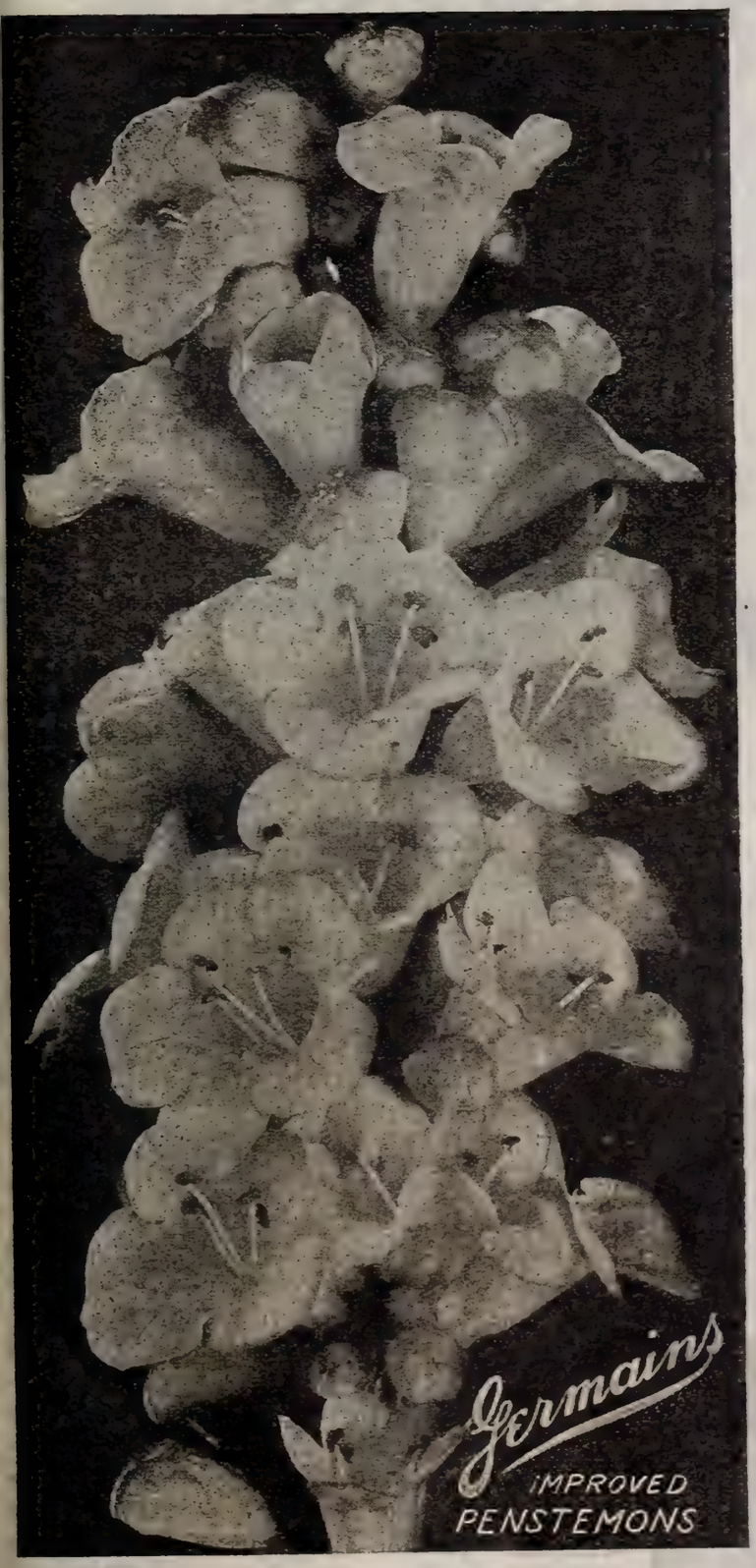
	Each	Doz.
BLUE—A splendid selection of all shades from light to dark blue. Flowers are long spurred and of large size.....	.35	$3.50
PINK—Contains the various tones from light pink to darkest rose. Very choice..	.35	3.50
MIXED—Including all shades from pure white to pink, rose, red, yellow, crimson, blue, and various bi-color flowers of superb quality and form.....	.35	3.50

See page 108

Novelties for 1921

PENSTEMONS

New giant Gloxinia flowered. A grand new class of Penstemons bearing on long spikes innumerable quantities of tubular shaped flowers. Those of our customers who have grown Penstemons will find a welcome surprise in this new selection which we are offering for the first time. The blossoms are fully twice the size of ordinary strains heretofore in cultivation, and the range of colors is much wider. The flowers occur in a color series of superb quality and effect; handsome shades of lilac, rose, crimson, purple, etc., are plentiful. Some of the flowers are beautifully marked in the throats and in others the throats are pure white, with the exterior petals of the flowers beautifully rimmed and zoned in various highly contrasting colors. Strong plants from 2-inch pots, each 25c, per dozen $2.50.



FOUR MAGNIFICENT NEW DAHLIA

FIREBALL

A grand Cactus Dahlia, fiery red in color. The blooms are of ultra-refined cactus shape with long quilled, incurved and interlaced petals. A remarkable feature of this Dahlia is its immense size. A sensational novelty any way you take it. $1.50.

PINK BEAUTY

A beautiful Cactus Dahlia of immense size, refined form and with splendid stems in one of the most wonderful shades of color to be found. The blossoms attain a diameter on disbudded plants of eight to ten inches. The petals are outstanding, beautifully quilled and in color a most delicate shade of lavender pink, shading lighter at the center. Flowers borne erect on stout stems. A splendid variety for cutting purposes. $2.00.

PRIMROSE DAME

One of the loveliest Dahlias in our entire collection and one that we feel sure will please the most critical. The color combination is quite distinct from that of any other variety which we know of. The ground color of the flower is primrose yellow overlaid with coral pink. The flower is of the cactus decorative type with beautifully curved and twisted petals. The flowers are poised on the ends of long stiff stems. Extra good for cutting purposes. $2.00.

SNOWDRIFT

Unquestionably one of the finest white Cactus Dahlias ever grown. The color is a glistening snowy white. As white as driven snow. Combined with its wonderful shade of color is its exquisite form and the fact that the flowers are borne on strong stiff stems, the flowers being held in bold relief well above the foliage. $2.50.

SPECIAL OFFER

One each of the above magnificent Dahlias for $7.00

EUCALYPTUS FICIFOLIA

Some New Colors

There is nothing more attractive as a flowering tree than the well-known scarlet flowered Eucalyptus. Although they do not, as a general thing, come true from seed, we have grown this season a number of fine plants from seed saved from isolated specimens, in new and distinct shades of color. One is Strawberry, another Orange, and another Dark Red. While we cannot guarantee them to come absolutely true to color, it is certain that they will be distinct from the ordinary type. For dry, hillside plantings, these Eucalyptus are particularly useful, as they require little or no water after the first season of planting. By planting an assortment of the colors which we offer, you are bound to obtain a number of each. The stock is exceptionally fine, all pot grown, 5 to 6 feet high. Price, any color, each 75c, per dozen $7.50.

TECOMA JASMINOIDES

ROSEA—A comparatively little known pink flowered form of the hardy Jasminoides type. One of the cleanest and handsomest vines procurable for trellises, pergolas, etc. It grows with great rapidity. Only suitable, however, for warmer sections of the country. It will not withstand more than 5 to 6 degrees of frost. Extra fine plants in 5-inch pots, each 50c.

See Page 108

ASTER CLIMAX

One of the handsomest of all perennial Asters. Flowers, an exquisite shade of deep lavender blue. They are large in size, attaining a diameter of some 3 inches. This splendid new perennial Aster will prove a welcome addition to the herbaceous garden. Only a limited stock to offer this season. Each, 35c per dozen, $3.50.

BIGNONIA SPECIOSA

A beautiful trumpet flowered Bignonia from Mexico. Blossoms borne in very large clusters. Color a delicate mauve. An ideal plant for pergolas, arbors, etc. This vine is only hardy in warm sections. It will not withstand much frost. Should be in every Southern California garden. Extra fine plants in 5-inch pots, each, 75c.

VITIS HENRYANA

A new evergreen Ampelopsis, remarkable alike for the rapidity of its growth and for its handsomely marked foliage. In our opinion it exceeds in beauty Ampelopsis Veitchii or Boston Ivy, as it is more commonly called. The leaves are beautifully marbled with gray green, reddish copper, etc. During the Autumn these tints become intensified, and the foliage effect of these vines is one of surpassing beauty. We can recommend this vine for all sections of the country. It delights in a semi-shady position and requires an abundance of moisture. Extra fine plants, each 75c.

See page 102

A NEW GIANT HONEYSUCKLE
LONICERA HILDEBRANDII

This new Honeysuckle was introduced from China several seasons ago, but up to the present we have been unable to obtain a stock of sufficient size to offer our customers, owing to the fact that it is very difficult of propagation. This Honeysuckle is absolutely distinct from any of the common garden varieties. The blossoms are over 6 inches long, the open face of the flower is fully an inch wide, the foliage is a beautiful shade of light green and the leaves on the fully grown plants attain a length of 6 to 8 inches. It is intensely fragrant and deep, rich golden yellow in color. This wonderful new Honeysuckle is principally suited to warm sections; it will not withstand much frost. If you desire something different in the way of a climbing vine, this superb new Honeysuckle will certainly please you. Only a limited stock to offer this season. Strong plants from pots, each $1.00.

ROSES

For the newest Roses, see pages 102 to 107

See page 102

NEW HYBRID PHILADELPHUS

The following splendid Philadelphus or Syringas, as they are commonly called, are hybrids of French origin. They are deciduous flowering shrubs, covered with quantities of handsome blossoms during the early Spring. These wonderful new varieties are distinct from any of the older varieties in cultivation. The flowers are of various shapes and sizes, and in one or two of the varieties entirely new colors have been introduced.

BANNIERE—A very large flowered snowy white form, with handsome semi-double blossoms.

BOQUET BLANC—A superb pure white, perfectly double form.

COQUETTE—A very large flowered pure white.

PURPUREO-MACULATUS—Pure white with a distinct purple spot on each petal.

ROSACE—Immense double, pure white flowers, quite distinct in form from Bouquet Blanc.

VIRGINAL—Unquestionably one of the best of all the double white varieties.

SPECIAL OFFER—One each of the above six superb varieties, $4.00.

GERMAIN'S CHOICE ROSES

Our stock of Roses for the present year is finer than ever and we direct your attention to the splendid novelties which we are offerng foir the first time. During the months of January, February, March and April we can supply them as dormant or bare root plants. From July on, they will be sent out as balled plants. All plants are heavy, two-year-old stock which will give immediate and splendid results.

ROSE NOVELTY FOR 1921

WM. F. DREER

A beautiful Rose of the same parentage as Los Angeles, and which, for delicacy of coloring, is not comparable to any other variety, it reminding one of the delicate tints of some varieties of water lilies. The flowers, which are similar in shape to Los Angeles, and like that variety, beautiful in all stages of development, are at their best in the half-expanded flower. These, in expanding, are of a soft, silvery shell-pink, the base of the petals of a rich golden-yellow which, at certain stages of development, gives a golden suffusion to the entire flower, this golden suffusion being particularly brilliant early and late in the season. Strong two-year-old plants, $2.50 each.

NOVELTIES OF 1920

THE WONDERFUL PRIZE WINNING ROSE "LOS ANGELES"

No words can adequately convey the wondrous beauty of this superb novelty. Its fame is already world-wide and its popularity ever increasing. It is the Gold Medal Rose of the year, winning at Paris, France, in June, 1918, the coveted Gold Medal awarded by the City of Paris in the Rose trials at the Bagatelle Gardens, Bois de Boulogne Park. This in competition with Roses from all parts of the world.

It is a Rose without a fault. It is strong in growth, sending out enormous canes clothed with dark, handsome foliage. The foliage is mildew proof. It is hardy, deliciously fragrant and during the spring, summer and autumn months produces an endless succession of ravishingly beautiful blossoms. The buds are long and pointed and expand to a flower of glorious size. Its color is of transcendent beauty, being an indescribable tone of flame pink, with superb golden yellow shadings at the base of the petals. The color combinations in the open flower possess a fire and intensity not found in any other Rose. Our stock for the present season is limited. Extra strong, two-year-old plants, $1.50.

ROSE MARIE

Amongst the various Roses which we have had under trial there [illegible] but few more meritorious than this magnificent American [illegible]ty. The buds are long and pointed, the petals large and well rounded, and the open bloom ideal as to form. One of the finest Roses we know of for cut flower purposes. The color is a delightful shade of pure rose pink. Highly recommended. Each, $2.50. See cut page 100.

ADMIRAL WARD

A magnificent new crimson Rose, with large globular flowers. Foliage dark, bronzy green. Each $1.00.

EDGAR M. BURNETT

Extra large flowers of fine shape and form. Petals of immense size, color flesh tinted with rose. An exceedingly sweet scented variety and unexcelled for bedding purposes. Each $1.25.

EDITH PART

A handsome bi-colored Rose, the exterior of the petals being a rich rosy red, the interior suffused with salmon on a pink ground, the base of the petals shading to yellow. The buds are long and pointed, expanding into a large perfect flower. A free bloomer and very sweetly scented. Each $1.00.

GORGEOUS

Color a delightful shade of amber yellow, veined with reddish copper. Flowers large, full and of exquisite form and finish. A strong, vigorous grower. Buds fairly long, open blossoms displaying its rare color combination. A Rose which attracts the eye at once. Each $1.00.

H. V. MACHIN

This magnificent new Red Rose is unquestionably one of the largest and most perfect of all Red Roses. In character of growth it is similar to Ulrich Brunner. The color is a rich, deep velvety crimson. The buds and open blooms are of immense size and absolutely perfect as to form. It is a Rose which will easily supplant American Beauty or other Roses of similar character, as it has not the blue or purple cast of shades to be noted in most dark Red Roses. In addition to its wonderful flowers, there are but few Roses with more beautiful foliage. Each $1.00.

HOOSIER BEAUTY

In our opinion, one of the finest red hybrid tea Roses in existence. A rose of American origin and one which easily outdistances any other red on the market. Flowers are of superb form, not unlike a perfect Sunburst in shape. They are beautiful either in bud or in the fully expanded bloom. The tone of color is one of those rich dark velvety reds, not unlike the color to be noted in the old variety "Black Prince." It is freer in growth than McArthur, with a color which far surpasses the latter variety. Each $1.00.

LEONIE LAMBERT

This is a new Rose which has come to stay. In color a beautiful silvery rose shaded rosy flesh. The flowers are large and well formed. Good in either bud or open flower. A remarkable feature of this Rose is its splendid foliage, which seems to follow the stems right up to the flower. There are but few Roses in existence which have better foliage, the plants when in growth being so dense as to completely hide the stems. Mildew proof. Highly recommended. Each $1.00.

MAD. AMBROSE RICCARDO

Honey yellow, suffused with soft saffron yellow. A splendid addition to the new class of bi-color Roses. This is a Rose of impressive size, delightfully fragrant and remarkably free flowering. Each 75c.

MADAM EDMOND ROSTAND

A wonderful combination of colors is to be noted in this Rose. The exterior of the petals are a delicate shade of flesh and salmon, while the center is a reddish orange yellow. The flowers are large, globular in form and quite double. Buds long and pointed. Each $1.00.

MAD. EDOUARD HERRIOTT

The famous Daily Mail Rose. Winner of the $5,000 prize at the International Horticultural Exposition held in London, England. Buds coral red shade with yellow at the base. Open flowers of medium size, when fully expanded they take on a superb coral red color with yellow shadings. As the flower ages it passes to bright, rosy scarlet and shrimp red. Each $1.00.

MRS. FRANKLIN DENNISON

This is a Rose for the million. It is one of those new colors, or rather combination of colors, which will appeal to all Rose lovers. The upper portion of the flower is pearly pink. The base of the petals shaded with deep yellow. Immense, long, pointed buds, open blossoms of mammoth proportions. Each $1.00. See cut page 101.

MRS. S. K. RINDGE

One of our new hybrid Roses, and one which we believe will fill a long felt want by way of a good yellow Rose. The flowers are a magnificent deep golden yellow without any tints of copper, the only shade to be noted is in the buds where the outside petals are stained with Cadmium red. The bud is long and pointed and expands into a flower of immense size. As the petals age they become suffused with soft pink and create a rather curious effect, as on the same plant may be seen the bud with its deep rich yellow tones, the effect being that of a plant producing bi-colored Roses. A characteristic of most yellow Roses is the fact that as the flowers age the petals become white and faded or almost colorless, whereas in this variety the blooms take on an added charm. Some plants which were tested by one of our customers attained in one season a growth of over five feet in height. The foliage is large and leathery, with a beautiful glossy texture. This Rose will prove hardy in the East and does splendidly in California. Regarding this superb Rose, it is interesting to note that plants which were sent to various sections throughout the United States on a preliminary trial test have all done exceedingly well, and from the owners of the gardens where these trials were conducted we have received numerous letters, all of which express gratification with its behavior, its magnificent color and its robust habit of growing. Each $2.50.

MISS LOLITA ARMOUR

It is with pleasure that we are able to offer to our customers this season a rose of such outstanding and superlative merit as this magnificent new sort. We believe it to be one of the greatest breaks by way of color ever known in Roses. There is nothing we know of in cultivation like it. Regardless of color, we doubt if there are any more beautiful. The color is difficult of description, but may be briefly described as follows: Chrome yellow at the base, shading to burnt orange and copper. The reflex of the petals is chrome yellow at the base, shading to bright salmon with brilliant copper suffusion. The flower is quite double, the bud similar in shape to those noted in the variety Caroline Testout. As the flowers of this variety age they turn to a delightful shade of shrimp pink and copper. The flowers are more or less cup shaped and display to splendid advantage the colors noted above. We have tested this variety under all conditions. From a few sample plants sent to the East the reports have been, to say the least, glowing in their terms of praise. We have only a very few plants to offer this year. Each $2.50.

ROSES—Germain's Selection of New and Scarce Varieties

Under this heading are varieties of more or less recent introduction and such as we have given exhaustive trials to determine their merits. They are all distinct as to color and comprise a collection second to none in this country.

ANTOINE RIVOIRE. Yellow ground, tinted with rosy flesh. A superb color combination ..... Each $0.75

ARNOLD JANSSEN. A remarkably vigorous growing Rose. Produces endless quantities of deep rose pink-colored flowers. Impressive in size, perfect in bud and open flower. Splendid for cutting purposes ..... .75

ARTHUR GOODWIN. A superb Rose of the Pernetiana class. In color, rich orange with tinting of salmon. A unique and beautiful color ..... .75

BEAUTE DE LYON. A very vigorous growing variety of the Pernetiana class. Color quite new in Roses. Copper, with rosy shrimp pink shadings ..... .75

DOROTHY PAGE ROBERTS. A vigorous growing variety with extra long pointed buds. In color, an exquisite shade of salmon pink. Good for cutting purposes ..... .75

EDWARD MAWLEY. A gold medal winner. One of the best dark velvety crimson Roses in existence. Color rich and lustrous ..... .75

FRANCIS SCOTT KEY. A strong sturdy growing variety of American origin which has proved a valuable rose for the garden. The flowers are large, very double, and perfectly formed. In color, a deep even shade of red ..... Ea. .75

GRANGECOLOMBE. Color white, tinted with creamy yellow. A free-grower with handsome, long pointedbuds ..... .75

IDA SCHUBERT. A splendid dark reddish crimson. Flowers fairly full. Buds long and pointed. Exquisitely scented. Very fine 1.00

J. L. MOCK. Enormous deep rose-colored blooms, equally beautiful in bud or open flower. Throws splendid canes. An ideal cut flower variety ..... .75

JULIET. A wonderful combination of orange, scarlet, salmon, gold, etc. By way of color it is one of the mostsensational Roses ever introduced. Hardy in all sections. Especially fine in early Spring and late Autumn ..... .75

LAURENT CARLE. A comparatively recent introduction of French origin. In color, bright red. Very free bloomer. Mildew proof. Extra fine for bedding. .75

MAD. CHAS. LATAUD. Center a magnificent shade of deep chrome yellow, turning to bright rosy scarlet and salmon on the outer petals. Very large and full 1.00

MRS. MACKELLAR. Color deep citron yellow at the base of the petals, gradually merging to canary yellow, and as the flowers age, turning to pearly primrose white. A vigorous grower with stiff, erect stems and a splendid bloomer 1.00

MRS. HILLAS. A comparatively new yellow Rose, but one, which when it becomes better known will find its place in every garden. It is what may be called a two-tone yellow Rose, the inner portion of the buds being deep rich yellow shaded to creamy yellow at the tip of the petals ..... .75

MRS. GEO. SHAWYER. A sensational-variety introduced from England a few seasons ago. Open blooms, and buds of remarkable size. In color, a splendid shade of deep rose ..... .75

MRS. S. T. WRIGHT. A very handsome free flowering Rose. The guard petals are tinted with old rose, the center petals are a charming suffusion of pale rose pink. One of the best of this particular color combination 1.00

OPHELIA. A Rose which has made a record for itself as a cut flower variety, and is admired by everyone. It is perfect in form, large in size and of a most pleasing delicate tint of salmon flush with rose shadings ..... .75

PRIMROSE. A superb free grower and free blooming yellow Rose. A combination of apricot and dark yellow. The color in this variety is very distinct. The blossoms are large and perfectly formed and the buds ideal as to shade. Deliciously fragrant 1.00

QUEEN OF FRAGRANCE. This beautiful new Rose has certainly been well named. It possesses the delicious fragrance to be noted in the Briar Rose. Color, beautiful shell pink, tipped with silver, a bright and pleasing color. This is a Rose we recommend to all of our customers ..... .75

RED RADIANCE. A sport from the well known pink form. Flowers equal in size, but of a deep, rosy red color. Buds and open flowers of mammoth proportions. Deliciously fragrant; a constant and free bloomer. An ideal Rose for cut flower purposes 1.00

SUNBURST. A wonderful shade of rich orange yellow, shaded to cream yellow at the tips of the petals. A sensational Rose any way you take it, and unquestionably one of the best yellows in cultivation today ..... .75

TOTOTE GELOS. Chrome yellow shading to cream, occasionally tinted white. A Rose with remarkably long, shapely buds, carried on stout stems. Quite a new color in Roses and one which, when it becomes better known, will be in great demand 1.00

WAKEFIELD CHRISTY MILLER. A superb pink Rose. One of phenomenal size and vigorous growth. The petals have a beautifully crinkled and wavy outline at the edges. One of the best hybrid teas of its particular color. .75

For descriptions of the Wonderful Los Angeles Rose and many other choice varieties, see the pages immediately following and preceding

ROSES—Germains's Collection of Standard and Older Bush Varieties

Each

AARON WARD. Deep rich Indian yellow. Stems constantly throw quantities of beautiful medium size buds. Splendid for cut flowers..... $0.75

AMERICAN BEAUTY. One of the best Roses for the hot interior sections of the Western United States. Does magnificently in Arizona, Imperial section, etc. Throws especially fine, large blossoms during early fall and spring. .75

AUGUSTA VICTORIA. A free, healthy grower, with splendid foliage and superb buds. Pure white, occasionally tinted with cream at the center of the open flowers..... .75

BETTY. Copper Rose, shaded to golden yellow at the base. Buds long and pointed..... .75

CAPT. CHRISTY. An old Rose, but still one of the best standard varieties. Pearly pink on a white ground. Splendid in form, size and substance..... .75

CAROLINE TESTOUT. Satiny pink. Flowers beautifully cup-shaped and intensely fragrant..... .75

CLARA WATSON. A free growing, free blooming Rose of a lovely blush pink shade. Strong canes, clothed with heavy, leathery foliage..... .75

DUCHESS OF WELLINGTON. Intense saffron yellow, stained crimson. As the flower ages it becomes a deep saffron yellow. Blooms fairly full, buds long and pointed, very free flowering. Exceedingly fragrant..... .75

FLORENCE PEMBERTON. One of the largest of all pink Roses. Aside from its remarkable size it has one of the most delightful colors of any Rose. Silvery pink on white ground..... .75

GEN. McARTHUR. One of the most popular and freest blooming of all red garden Roses. Color is a bright rosy crimson. It is not subject to mildew. Especially valuable for bedding purposes..... .75

HARRY KIRK. A splendid addition to the none too long list of yellow Roses. Deep rich yellow with lighter shadings at the tips of the petals. The buds are perfection in form..... .75

JOS. HILL. One of the best of all garden Roses. Not only remarkably free flowering but carrying a color which is scarce in Roses. Salmon pink shaded to copper and orange. Flowers large, perfectly double, exquisite in any stage of development..... .75

KILLARNEY QUEEN. A sport from the well known Killarney. Much deeper in color, hence the name. Deep, rich, satiny rose, tinted with carmine..... .75

LADY HILLINGDON. One of the best of recent introductions. A lovely shade of apricot yellow. Free blooming and splendid for cut flower purposes..... .75

MAD. ABEL CHATENAY. Lovely shade of salmon pink, especially useful as a winter blooming Rose, in the warmer sections of the country. Buds and open flowers ideal as to form..... .75

MAD. CECIL BRUNNER. One of the best of all the baby Roses. Color bright salmon pink..... .75

MAD. LEON PAIN. Silvery pink shading to salmon, base of petals orange. Unquestionably one of the freest blooming and best all around Roses in cultivation today. Superb in either bud or open flower. A sheet of color throughout the season..... .75

MAD. MELAINE SOUPERT. One of the most highly-prized points in a Rose is a long pointed bud. We believe it would be difficult to find one which is better than this particular variety. Remarkable also for its lovely color, which is deep yellow toned with salmon. When fully expanded it loses the deeper bud tints and becomes quite light..... $0.75

MAD. SEGOND WEBER. Magnificent light rosy salmon. Buds long and pointed expanding to flowers of immense size. In this particular color there is nothing to equal it. .75

MARY, COUNTESS OF ILCHESTER. A pleasing shade of dark, rich rose. This is a Rose of remarkably vigorous growth. Has splendid, heavy, leathery foliage..... .75

MRS. A. R. WADDELL. Reddish apricot toned with salmon. An odd type in Roses, the petals being somewhat loose and irregular in formation. As a garden Rose it is without an equal. Before the buds expand it is ideal for cutting purposes..... .75

MRS. JOHN LAING. One of the most deliciously fragrant Roses in existence. Color a lovely shade of soft pink. An old standard Rose and still one of the best..... .75

PAUL NEYRON. The largest Rose in cultivation. Blossoms often eight inches in diameter. Rich, deep Rose in color. 75

Each

PERLE D'OR. A counterpart of the baby Rose Cecil Brunner with the exception that the color is of various shades of copper and salmon. Flowers of splendid form..... .75

PHARISAER. In color, a magnificent shade of salmon pink. Ideal as a bud or open blossom, in addition to which it possesses a delicious odor..... .75

PINK COCHET. Long, pointed buds, pure rich pink in color. A vigorous grower, one of the best varieties of its particular shade. Splendid for cutting purposes..... .75

PINK KILLARNEY. A lovely shade of clear, soft pink. An ideal cut flower Rose, on account of its splendid bud formation. Deliciously fragrant..... .75

RADIANCE. A Rose of American origin and to our mind one of the best varieties in cultivation today. Buds long and pointed expanding to blooms of enormous size. Similar in shape to Caroline Testout, but in color deep rich rose pink..... .75

RED ROVER. A very full finely formed red Rose. A great favorite, always in bloom. A good cut flower variety..... .75

TEPLITZ. An ideal red Rose for hedge purposes. Blossoms constantly throughout the year. Color velvety crimson, has a splendid constitution, good clean foliage, strong, upright canes..... .75

ULRICH BRUNNER. Color a rich cherry crimson. Produces its blossoms on the end of the canes. These may often be cut with a stem length of three to four feet. Especially fine during the early spring and late autumn months... .75

WHITE AMERICAN BEAUTY (Druschski). An ideal hardy white Rose, pure white in color. A remarkably vigorous grower. Free flowering to a degree. In our opinion, the best of all white Roses..... .75

WHITE COCHET. An exact replica of the pink with the exception of color, which is pure creamy white with tinting of pink..... .75

WINNIE DAVIS. An exquisite shade of salmon pink. This variety is a wonderful bloomer. Produces masses of flowers throughout the blooming season..... .75

See Page 113

GERMAIN'S SELECTION OF CLIMBING ROSES

PAUL'S SCARLET CLIMBER—One of the most sensational novelties in climbing Roses ever introduced. It is a climber with splendid foliage and glorious vivid scarlet flowers. These are borne in wonderful profusion. A plant in bloom arrests the attention at once. Although only introduced a few seasons ago from England, it has already taken a high position amongst hardy climbing Roses. For pergola effects or pillars this Rose is absolutely unexcelled. There is no variety with which we are acquainted that can equal it. This Rose will stand exceptionally low temperatures without any danger of freezing. No Rose garden, large or small, should be considered complete without a plant or two of this superb sort. We cannot do otherwise than give it the highest recommendation possible. It has already proved its worth. Each.....$1.00

Each

CLIMBING CAROLINE TESTOUT. Silvery pink blossoms, identical with those of the bush form. One of the best of the climbing Roses. Plants are covered with perfect buds and open flowers during their blooming season. Quite free from mildew..... 1.00

CLIMBING CECIL BRUNNER. Identical as to flowers with the bush form of the same name. One of the best of all climbing baby Roses. Salmon pink blossoms produced in great masses during spring and autumn..... 1.00

CLIMBING DUCHESS DE AUERSTADT. Deep, rich yellow in color. In our opinion this Rose is more impressive than Marechal Neil. It is but little known, but is deserving of wide cultivation..... 1.00

CLIMBING EXCELSA. A climbing Polyantha Rose which produces large clusters of rich, crimson flowers during the early Spring. It does not mildew like Crimson Rambler and the color is far more pleasing..... 1.00

CLIMBING HENRIETTA. Bright cherry red in color. Blossoms abundantly produced..... 1.00

CLIMBING LADY ASHTOWN. One of the newer climbing Roses and one of the best pink Roses for all-around purposes. Color a deep, silvery pink, somewhat darker in its tone than Caroline Testout..... 1.00

CL. LIBERTY. A comparatively recent introduction. Bears large quantities of magnificent rich crimson buds which expand into wonderful, highly colored open flowers..... 1.00

CLIMBING MAD. DRIOUT. A sport from Henrietta, the flowers being curiously striped with rose on a cherry-colored ground..... 1.00

CLIMBING PINK COCHET. A climbing form of the bush Rose of the same name. This is a sensational variety. It flowers with great freedom..... 1.00

CLIMBING REVE D'OR. Buff and apricot, the colors being beautifully blended..... 1.00

Each

CLIMBING VICTORIA. One of the best of all climbing white Roses. Buds identical with the bush form, but owing to its climbing habit produced in far greater profusion.... 1.00

CLIMBING WHITE COCHET. A replica of the pink form, but of a handsome shade of white, rimmed with rose on the edge of the petals..... 1.00

FRANCOISE CROUSSE. This Rose fills a long-felt want in high-colored climbers. Color, rich crimson red, blooms very velvety in texture and produced in great profusion... 1.00

LAMARQUE. Well-known as one of the finest white varieties in cultivation. A very profuse bloomer, fine in the bud, excellent as a cut flower..... 1.00

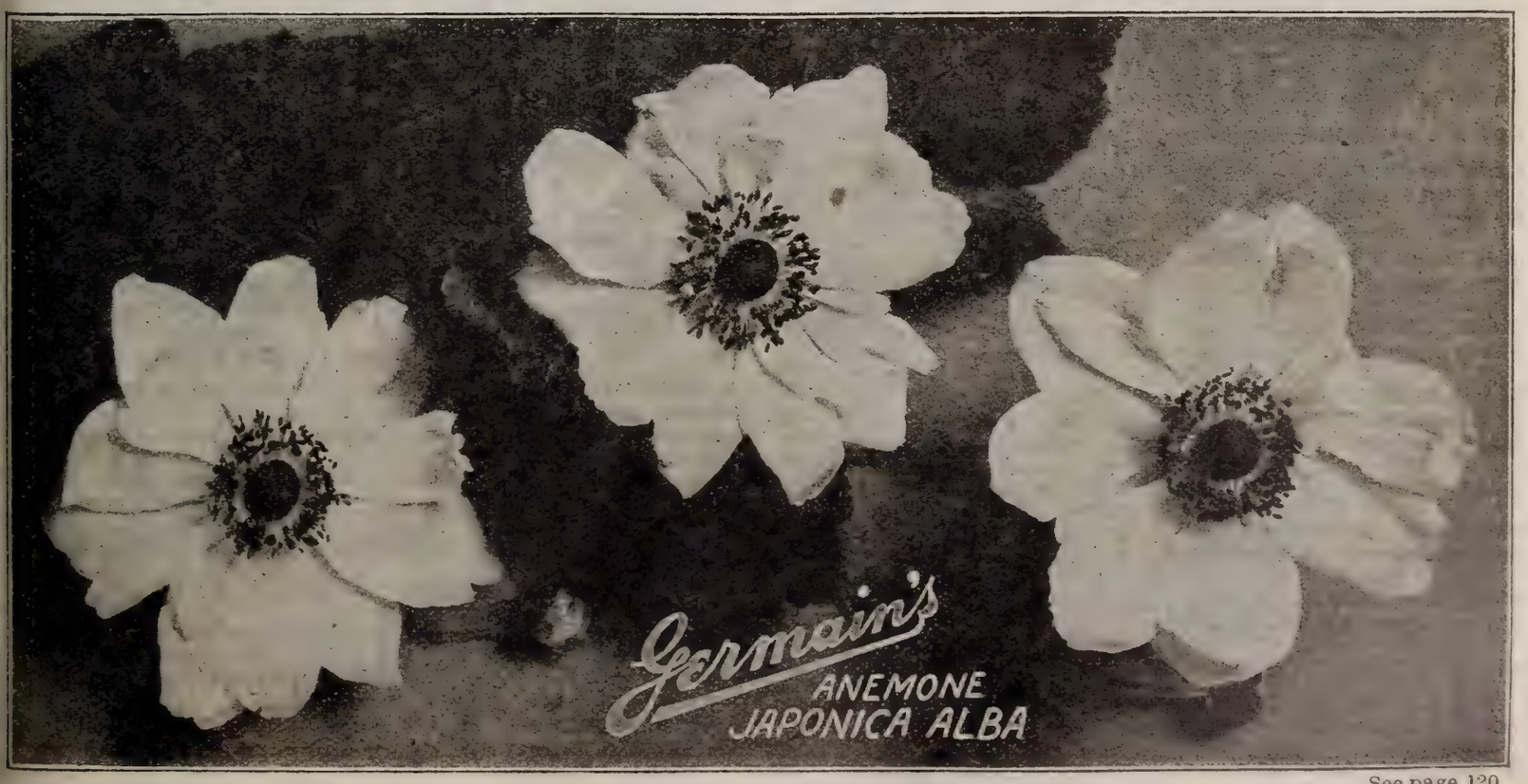
LADY GAY. Blossoms borne in immense clusters. Color, soft pink. Especially useful for growing in pots for Easter decoration..... 1.00

MARECHAL NEIL. This is one of the best and most generally known climbing Roses in existence. Produces very large and deliciously fragrant golden yellow blooms. The buds are ideal in form and expand to full and globular blooms. 1.00

THOUSAND BEAUTIES. Entirely distinct, not only in Ramblers, but in climbing Roses, generally. The individual flowers are very large for this type of Rose. In color it is a most delicate shade of soft pink when first opening, changing to carmine on the reverse of the petals when fully expanded. Borne in large clusters..... 1.00

WHITE CHEROKEE. A variety grown in great quantities throughout California, and is invaluable for hiding unsightly barns, fences, etc. It produces great masses of waxy-white single flowers, with a conspicuous bunch of yellow stamens in the center. Foliage shining green and good at all times of the year..... 1.00

WILLIAM ALLEN RICHARDSON. A climbing Rose of unique color. Center of flower deep orange. Outer petals more or less creamy at margins. The buds are a pure orange tint and are excellent for cut flowers..... 1.00



See page 120

GERMAIN'S SELECTION OF CHOICE CHRYSANTHEMUMS

Chrysanthemum Plants are not ready for shipment until after May 1st

In the following list of varieties will be found a collection which is exemplary in every respect. Every variety offered is one of sterling quality. The plants which we offer have been propagated from cuttings and will be ready for delivery before ***MAY 1st.*** *Orders received will be booked in strict rotation and sent out as soon as the stock is fit for shipment.*

We do not advise planting Chrysanthemums too early, as they become hard and woody long before the flowering season begins, and if they are to be pinched for large flowers, the crop will often prove a failure, as a result of too early planting.

For the benefit of our customers and ease of making selections, we have grouped the various colors under separate heads.

Japanese Chrysanthemums—White Varieties

Each

WHITE CHIEFTAIN. The cut on page 98 conveys but a faint idea of the exquisite beauty to be noted in this new chrysanthemum. The flowers are composed of broad channeled and regularly incurved petals. It is a wonderful keeper as a cut flower. In our opinion it is one of the grandest of all incurved chrysanthemums. Do not fail to include one or more plants when ordering your collection of chrysanthemums for the ensuing season. Ready May 1st ..... .35

ALGONAC. Pure white, slightly incurved. Extra fine ..... .25

ANTIGONE. Gigantic pure white flowers, blossoms exceedingly double ..... .25

JEANNE NONIN. Immense round flowers with regular, incurved petals ..... .25

MAD. S. JOSSIER. Gigantic creamy white ..... .25

MAD. DIEDERICHS. Very large flowers, petals incurved, creamy white ..... .25

MISS NELLIE POCKETT. A flower of great depth and breadth. Petals long, drooping and closely interlaced .. .25

WILLIAM TURNER. The largest of all white Chrysanthemums. Well grown plants produce flowers ten to twelve inches in diameter ..... .50

AUTOCRAT. Immense snow white blooms and exceedingly fine foliage ..... .25

CRYSTAL GEM. A pure white incurved. One of the best varieties for flowering in October ..... .35

EARLY FROST. One of the earliest of the white flowering varieties ..... .25

FLORENCE DENZER. A good white variety ..... .25

JOSEPHINE FOLEY. An excellent pure white, suitable for exhibition purposes. Splendidly round and incurved with fine stem and foliage ..... .35

LA FUSION. A very desirable variety ..... .35

LYNNWOOD HALL. A splendid cut flower variety of immense size. Pure white ..... .25

MRS. R. OBERTHEUR. Pure white ..... .35

MISS MAUDE JEFFRIES. White variety with fine foliage. A fine variety for commercial purposes. Dwarf ..... .25

MRS. J. S. REUTER. A beautiful pure whire, very desirable. .25

OCONTO. A white incurved with rigid stem and perfect foliage. .25

PRESIDENT TAFT. Pure white, Japanese incurved. Extra good stem and foliage ..... .25

PRESIDENT LOUBET. White with a faint tinge of pink. Enormous flowers composed of incurved and twisted petals. .25

THANKSGIVING QUEEN. Large creamy white. Comes just right for Thanksgiving ..... .25

Japanese Chrysanthemums—Pink Varieties

CHIEFTAIN. A new and very popular pink variety, a soft shade ..... .25

GOOD GRACIOUS. Irregular incurving blossoms of enormous size ..... .25

LADY HOPETOUN. A dwarf, light pink ..... .25

LAVENDER QUEEN. Handsome reflex, lavender pink flowers. .25

MEUDON. A sensational novelty, one of remarkable size. Pure pink ..... .50

MRS. COOMBS. An exquisite shade of deep pink ..... .25

MISS LUCY EVANS. Incurving and reflexing petals. Color heliotrope pink ..... .25

MARIE LIGER. Brilliant pink. Extra large flowered ..... .25

PETIT MARCEL. Extremely narrow petals. Dwarf growing, splendid for cutting ..... .25

T. RICHARDSON. A loosely formed, silvery pink color ..... .25

A. J. BALFOUR. Bright rose. Extra large. Superb variety. .25

MLLE. JEANNE ROSETTE. Narrow quilled petals. Very double flowers. Soft pink in color ..... .25

MLLE. CLEMENTINE TOUSSET. A fine pink. One of the best of the older varieties ..... .25

MARQUISE DE PIERRES. Pink. An old favorite ..... .25

MONSIER LOISEAU ROUSSEAU. Deep pink. Fine habit. Large foliage ..... .25

MRS. G. C. MASON. A lovely pink. Fine exhibition variety. .35

SMITH'S SENSATION. A delicate shade of light pink, beautifully incurving in form. A fine exhibition variety ..... .50

UNAKA. An exquisite pink ..... .35

Japanese Chrysanthemums—Purple Varieties

MME. A. MARMOTEL. Enormous rosy purple, exhibition variety ..... .25

T. CARRINGTON. Deep purple. Reverse of petals lighter .. .25

Japanese Chrysanthemums—Yellow Varieties

Each

MARIGOLD. A grand incurving and reflexed yellow chrysanthemum. We do not know of any single variety wherein the shade of yellow is as bright and rich as in this superb sort. It is an ideal variety for cut flowers and lasts well when so used. This chrysanthemum has been exceedingly popular in the New York markets. We recommend it without hesitancy to those of our customers who are interested in chrysanthemums. Ready May 1st ..... .35

COLONEL APPLETON. Enormous golden yellow flowers. Splendid stems ..... .25

DECEMBER GOLD. A grand light yellow. Will blossom during December ..... .25

F. S. VALLIS. Citron yellow. Petals twisted and reflexed .25

GOLDEN GLEAM. Intense, glistening, golden yellow ..... .50

GOLDEN QUEEN. A handsome incurved variety. Blossoms during October ..... .50

MARIGOLD. A new one of superb beauty. See novelty list .. .35

MAJOR BONAFFON. Standard commercial variety. Petals regularly incurved ..... .25

MRS. T. W. POCKETT. Deep canary yellow. Long, yellow petals ..... .25

ODESSA. One of the largest of all yellow Chrysanthemums. Tall growing. Extra fine ..... .50

GOLDEN EATON. A golden-yellow sport from Timothy Eaton. A wonderful variety ..... .25

MAD. PAOLO RADAELLI. A very large yellow, faintly tinted pink ..... .25

MAD. CHAMBRAY. An exquisite yellow variety with fine foliage ..... .25

MRS. H. W. RIEMAN. A good yellow of unsurpassed beauty. .25

MRS. H. J. JONES. Rich deep yellow. True Japanese in form. Large size and tall growing ..... .25

MRS. R. C. PULLING. Clear bright yellow in color and a flower of large size. One of the best varieties for exhibition purposes ..... .50

MRS. F. J. TAGGART. A grand late yellow ..... .25

MRS. HARRY EMMERTON. Bright amber-yellow, shading to straw-yellow. Uniform shape of flower ..... .25

RAMAPO. An extra good yellow with fine foliage right up to the flowers ..... .25

ROI d'ITALIE. One of the best of the older varieties. A grand yellow ..... .25

S. A. NACEUR BEY. Deep yellow, occasionally streaked red. A very good variety ..... .25

SOUVENIR de A. SCALARANDIS. Intensely bright golden-yellow flower with heavily over-lapping foliage. A wonderful variety ..... .25

TIGER. This variety was named by President Wilson. A very round and fine yellow with strong stem and good foliage. Very double ..... .50

WOODSIDE. A sensational variety. Flowers enormous. Color, deep yellow. Fine stem and foliage ..... .50

YELLOW PRINCE. A peculiar shade of tawny orange. See cut page 100 ..... .25

YELLOW WM. TURNER. A golden-yellow sport from the well known variety Wm. Turner, having all the good points of this variety ..... .50

Japanese Chrysanthemums—Red Varieties

A. CONSEIL. Reflex. Deep crimson petals. Extra choice .. .25

BLACK HAWK. Rich, brilliant crimson 2

EDGAR SANDERS. Deep bronze with lighter reverse. Extra large 2

F. T. QUITTENTON. Splendid reflexing. Deep crimson 3

MRS. J. A. MILLER. A large, high built, reddish bronze Japanese 2

MAD. BRUANT. A reddish bronze, petals more or less incurved 2

ADELE GRISWOLD. Bright red in color. Fine stem with excellent foliage 2

CALUMET. One of the very finest exhibition bronzes. Large blooms and perfect in form. One of the easiest growers .. .2

INTENSITY. Red, bronze reverse. A very easy grower 2

MRS. O. H. KAHN. Bronze. Fine foliage 2

MRS. R. F. FELTON. Rosy terra-cotta red 3

WILLIAM R. MEREDITH. Dark crimson red with golden reverse. Fine foliage, good stem. An unusual color ..... .25

CHRYSANTHEMUMS

Single Chrysanthemums

No collection of Chrysanthemums could be considered complete :hout some of these new, handsome, single forms. Used in con- ıction with grasses, etc., in vases, they are of splendid decorative ɜct. They are easily grown and produce endless quantities of vers throughout the entire autumn season. Our collection of ɜse comprises a selection of all the best colors.

	Each
ROTHY DUGGAN. A magnificent semi-double. Pure white	.25
CELSIOR. Scarlet, changing to bronze and flame color. Extra large	.25
SA. Superb snowy white	.25
ENE. Deep lavender, zoned with white	.25
ON GRANT. Deep, rosy pink	.25
SS CLARA BANGHART. One of the best reds	.25
ıRION SUTHERLAND. Extra large yellow	.25
NNESOTA. Dark blood red	.25
ıS. BUCKINGHAM. A splendid shade of deep pink	.25
NALD. An exquisite variety	.25
ıS. H. HOGBEN. Orange bronze. Charming color for table decoration and has every other desirable attributes. Medium height and growth	.25
ıS. LOU THOMPSON. A beautiful primrose yellow	.25
B. BURGE. Pure snowy white	.25
ONNE. Brilliant bronze-amber	.25

Anemone—Flowered Varieties

	Each
EUGENE LANGAULET. Deep golden-yellow in color, coming in just in time for Thanksgiving Day. One of the best of the anemone-flowered varieties	$0.25
KATHERINE SIMMONS. Soft pink guard petals, yellow center	.25
MRS. F. J. GORDON DEXTER. Center pink, two rows of ray petals, white	.25
MISS IDA KROESCHELL. Yellow. A very fine variety	.25

Pompon Chrysanthemums

As with the single varieties, these old-fashioned, so-called button-flowered Chrysanthemums are growing in popular favor. They possess a daintiness and beauty which is all their own. The following are amongst the very best varieties at present in cultivation.

	Each
GOLDEN WEST. Rich, golden yellow	$0.25
GOLDEN CLIMAX. A dainty and pleasing shade of bright golden yellow	.25
LUCY. Distinct in form from the two preceding varieties. Extra fine for cutting	.25
MARY. A lovely shade of pure pink	.25
RITA. One of the best dark reds	.25

CHRYSANTHEMUM DOROTHY DUGGAN

CARNATIONS

Every Spring we grow many thousands of these popular favorites, and the collection noted below comprises the very best for general all-around cultivation. Plants are usually ready for distribution about the 15th of February to the first of March, at which time they are sent out as strong 2-inch pot plants, strong-rooted stock. It is essential, if best results are desired, that Carnations be grown from young plants. If they are old plants they become hard and woody and do not flower freely.

	Each	Doz.
DR. CHOATE. Very sweetly scented. Flowers of medium size, light scarlet in color	.15	1.50
ENCHANTRESS. Without a peer in the shell pink class. Enormous flowers	.15	1.50
ELDORADO. Best of all yellows. Yellow penciled scarlet	.15	1.50
FAIR MAID. Soft pink, tinted to appleblossom shade	.15	1.50
HALOWARDEN. Deep, rich crimson	.15	1.50
MATCHLESS. The peer of all pure white varieties.	.15	1.50
ROOSEVELT. Dark crimson maroon	.15	1.50
WHITE ENCHANTRESS. White, faintly tinted with blush. Extra large	.15	1.50
WHITE FAIR MAID. Deeply fringed, highly fragrant. Sport of Fair Maid	.15	1.50
ALICE. An immense bloom of beautiful rose pink shade. Not unlike Enchantress in habit	.15	1.50
BENORA. A splendid fancy variety. White penciled with deep rosy scarlet	.15	1.50
ESTELLE. Deep reddish scarlet. Extra choice	.15	1.50
E. K. HARVEY. White beautifully overlaid and mottled with pink	.15	1.50
MRS. C. W. WARD. A very large flowered variety with purple calyx and dark rosy pink flowers	.15	1.50
PROSPERITY. White stained with carmine	.15	1.50
PURITY. A very large white, deeply fringed. Quite distinct in character and growth from Matchless.	.15	1.50

HYDRANGEAS—NEW FRENCH HYBRIDS

In addition to the two particularly fine varieties specified as novelties, we offer the following exceedingly fine sorts. All of the varieties are distinct in form. There are two or three varieties of white, but all are different when it comes to general character of truss, size of individual florets, etc. For planting in shady beds, Hydrangeas are especially valuable. They are quite hardy and with the return of each Spring season there is an added quality to the display. The varieties which we offer you have been selected from a very large number and are the very best in their respective classes.

TWO EXTRA GOOD NEW HYDRANGEAS

	Each	Doz.
AVALANCHE. A new white Hydrangea remarkable for the immense size of its trusses and its snowy white color. The tone of white is as pure as drifted snow. To those who have heretofore grown the hardy pink varieties this handsome novelty will prove a welcome addition to their gardens	.75	...
BOUQUET ROSE. A wonderful shade of bright, glowing pink, quite distinct from the old Hortensis or Otaksa. The color in these last two is dull alongside of this splendid new variety. Trusses extra large, plants dwarf and compact. Price of either of the above, strong plants from 5-inch pots	.75	....
MLLE. DE TREMAULT. Immense corymbs of pure snow white flowers. Individual florets exceedingly large	$0.50	$5.00
MADAME RAYMOND. White, passing to clear rose.	.50	5.00
MLLE. AGNES BARILLET. Another extra fine white.	.50	5.00
MADAME E. MOULLIERE. The largest flowered of all the white varieties	.50	5.00
MONSIGNOR G. RENAULT. Bright Rose, with carmine reflex	.50	5.00
VIEUX CHATEAU. Flowers suffused with Rosy carmine	.50	5.00
BOTANISTE PELTEREAU. A pretty shade of mauve rose	.50	5.00
FRAICHEUR. White with dainty suffusion of rose	.50	5.00
INNOCENCE. A splendid compact growing variety. Pure white. Trusses of medium size	.50	5.00
LA LORRAINE. Pale rose, turning to bright pink	.50	5.00
MAD. M. HAMAR. A superb shade of delicate blush rose	.50	5.00
MAD. A. RIVERAIN. Brilliant blush rose	.50	5.00
MOUSSELINE. Very large trusses. Light pink with cream-colored center	.50	5.00
ORNAMENT. Extra large flowers. Mauve pink	.50	5.00
RADIANT. Rich rosy carmine	.50	5.00
SOUV. DE MAD. E. CHAUTARD. A free blooming and very early pink variety	.50	5.00
SENATEUR HENRI DAVID. Superb flowers of delicate pale rose color	.50	5.00
VIEUX CHATEAU. White with suffusion of rosy carmine	.50	5.00
VISCOUNTESS DE VIBRAYE. Rosy pink	.50	5.00
OTAKSA MONSTROSA. One of the older varieties. Always good. Color, blush pink. Trusses extra large	.50	5.00

GERMAIN'S SELECTION OF PERENNIAL PHLOX

Amongst the various herbaceous perennials, there are but few plants which grow with the freedom and blossom over such an extended period as the various Perennial Phloxes. Our collection of these comprise many of the new French varieties, all of which are marvels of beauty, and are remarkable alike for the immense size of the individual florets, as well as the enormous size of the trusses. Once planted, with each recurring season there is an added show of color to the garden, all with little or no trouble beyond a little attention so far as watering and fertilizing is concerned.

Four Choice New Varieties	Each	Do
B. COMTE. A splendid shade of crimson purple	$0.25	$2.5
RHEINLANDER. Beautiful salmon-pin kwith flowers and trusses of immense size	.25	2.5
WANADIS. Entirely distinct. A mottling of white and light violet	.25	2.5
W. C. EGAN. A pleasing shade of soft pink. One of the largest-flowered varieties in cultivation	.25	2.5

General Collections		
HERVOR. Rose with white eye	.25	2.5
HELEN VACARESCO. Dwarf pure white	.25	2.5
HENRI REGNAULT. Immense purple	.20	2.0
LOTHAIR. Dark salmon with carmine eye	.25	2.5
MAD. M. KUPPENHEIM. Dwarf, pure white	.25	2.5
OBERGARTNER REICHENAU. Very large pure Rose.	.25	2.
PANTHEON. Beautiful rose pink	.25	2.
PREF. SCHEILEMANN. Lilac rose	.20	2.0
RHEINGAU. White with rayed carmine eye	.25	2.
ROSENBERG. Wine red	.25	2.
SIEBOLD. Bright scarlet	.25	2.
VESUVIUS. Fiery red	.25	2.
VON HOCKBERG. Rich deep crimson	.20	2.
ALBION. Pure white, with a faint aniline red eye.	.20	2.
BRIDESMAID. Pure snowy white ground, with a crimson eye	.25	2.
COQUELICOT. Brilliant orange scarlet. A telling color	.20	2.
ELIZABETH CAMPBELL. Best pure light pink	.25	2.
EUROPA. White with a small dark eye	.25	2.
F. G. VON LASSBURG. A bright flowered, pure white.	.25	2.
GEORGE A. STROHLEIN. Deep reddish scarlet	.25	2.
GEN. VON HEUTZ. Orange salmon	.25	2.
INSPECTOR ELPEL. Rich rose with a dark eye	.25	2.
MRS. ROBINSON. A distinct shade of pure salmon.	.25	2.
MRS. JENKINS. Immense flowered, tall, pure white	.25	2.
MAD. PAUL DUTRIE. Flesh pink on a white ground.	.25	2.
PROFESSOR VIRCHOW. White, with crimson shadings	.25	2.
RYNSTROM. A delicate shade of soft pink	.25	2.
SELMA. Immense trusses. Flowers pale rose with dark eye	.25	2.
ZOUAVE. Carmine rose. Extra large	.25	2.

Note:—All Phloxes offered in the above list are strong, one-ye old, field-grown clumps. They should be set out as early in t Spring as possible, or if not advisable to plant in the Spring, th may be planted in the Autumn. They are quite hardy, will sta many degrees of frost without injury, and if given a little intel gent attention, will produce a wonderful display of color.

All of the varieties noted in the above list, with the excepti of Mrs. Jenkins and Mrs. Robinson, run about two feet in heig The two varieties noted above attain a height of three and or half feet.

LANTANAS

For use as edging plants, the various types of Dwarf Lanta will prove exceedingly valuable. They flower constantly from t end of April until the advent of winter frosts. They make verita mounds of color eight to ten feet high, and will stand much droug The following collection comprises the choicest varieties in cul vation at the present time:

	Each	D
AMIEL. Red with orange shadings	$0.15	$1
CRUSALLIS. Deep orange yellow	.15	1
CICERONE. Old gold, shaded with copper	.15	1
IOLANDE. Burnt orange and red	.15	1
JANNIA. A wonderful shade of soft pink	.15	1
RADIATION. Rich red with orange shadings	.15	1
ROSE QUEEN. A bright flowering dwarf Lantana, unquestionably the best of its color in cultivation. The white eye at the center of each floret adds much to the attractiveness of the plant	.20	2
SNOW QUEEN. A lovely pure white	.15	1
TETHYS. Dainty sulphur yellow	.15	1
LANTANA DELICATISSIMA. The well known Trailing Lantana. Covered with myriads of beautiful lavender pink flowers. Ideal for basket work or as a ground cover in warm, sunny locations	.15	1

GERMAIN'S COLLECTION OF CHOICE GERANIUMS

We have largely discontinued the growing of double Geraniums, s they are not equal to the singles as bedding plants. The flow-rs of double Geraniums do not drop when through blooming, but urn up in the truss, which renders them very unsightly.

OUNTESS OF JERSEY. A lovely new single Geranium of a beautiful salmon pink color and distinct white eye .....

'AUBE. Undoubtedly one of the finest of all white single geraniums. Immense trusses of bloom. Color pure, snowy white.....

RINCE OF ORANGE. A unique color in Geraniums and the nearest approach to an orange yet obtained. Plants dwarf and compact in habit. As a bedding variety, this superb novelty attracts attention at once.....

ALMON PAUL CRAMPBEL. A sport from the well-known scarlet form. Produces trusses of remarkable size, with extra large florets. Single Geraniums are the best for bedding, as the trusses clean nicely. When the flowers are done, the petals drop to the ground. In double varieties they usually dry in the truss and present a ragged, unkempt appearance. The addition of this splendid new salmon colored one will add materially to the list of our good bedding varieties. .....

rice of any of the above four varieties..... .25 ....

SPECIAL OFFER—One each of the four varieties for 75c

Single Geraniums

	Each	Dozen
LICE OF VINCENNES. A lovely pure white, which merges through carmine to intense scarlet at the outer edges of the petals	$0.15	$1.50
RABBE. One of the best of all bedding Geraniums of its color. Salmon pink, immense trusses. Extra large individual flowers	.15	1.50
ERISE. Rose, suffused with orange	.15	1.50
ERTRUDE PEARSON. Pure rose pink, with large white eye	.15	1.50
IERRICK. Intense scarlet	.15	1.50
ACQUERIE. The best of all dark crimson Geraniums	.15	1.50
OHN FORBES. Bright orange scarlet	.15	1.50
AUL CRAMPBEL. In our opinion, one of the finest of all the pure bright scarlet varieties. Individual trusses often over six inches across	.15	1.50
NOWDROP. The best of all pure whites	.15	1.50
OUNTESS OF JERSEY. A lovely new single Geranium of beautiful salmon pink tone with distinct white eye	.25	2.50
R. CONDAMY. Brilliant scarlet shading to violet, center pure white	.15	1.50
RED BEAN. Bright salmon pink. Remarkable for its immense blooms and splendid free blooming qualities	.15	1.50
ENERAL LEONARD WOOD. Center of flowers white, edges broadly banded with rosy carmine. A splendid variety	.15	1.50
'AUBE. Unquestionably one of the finest of all single White Geraniums. Immense trusses of bloom. Color, pure snowy white	.25	2.50
IARY SEATON. Large flowered scarlet with distinct white eye	.15	1.50
IARY STEWART. Bright crimson with scarlet shading	.15	1.50
IERRE VEBER. Center of the flower white, gradually merging to violet purple	.15	1.50
ENOMME LYONAISE. A splendid fancy Geranium, white with suffusion of rose	.15	1.50
ENE BOYSLEVRE. White at the center, shading to scarlet and violet at the edges of the petals	.15	1.50

Ivy Leaved

On account of their trailing habit, Ivy Geraniums are especially dapted for window boxes, sunny banks, etc., or they may also be sed as bedding plants. The following are amongst the best:

	Each	Dozen
HARLES TURNER. Bright rose pink	$0.15	$1.50
ARLOS UHDEN. Immense double blossoms. Bright rosy scarlet	.15	1.50
TINCELANT. Bright orange scarlet	.15	1.50
RINGOIRE. Bright rosy carmine. Enormous flowers.	.15	1.50
EOPARD. Similar to a Pelargonium. Ground color lavender pink, blotched crimson on the petals	.15	1.50
ELADEN. Handsome salmon pink	.15	1.50
HE BLUSH. White, daintily tinted with rose	.15	1.50
OLONEL BADEN-POWELL. Pearly white with blush tints. A remarkable break in this class of Geraniums. Flowers of immense size	.15	1.50
ICOMPARABLE. A splendid shade of rosy carmine. Free blooming	.15	1.50
HIS MAJESTY, THE KING. Soft rosy scarlet. Very double and of splendid form	.15	1.50
LA FOUDRE. Brilliant orange scarlet. Extra large double blooms	Each $0.15	Dozen $1.50
MRS. H. J. JONES. Carmine rose feathered maroon on the upper petals	.15	1.50
RYECROFT SURPRISE. A splendid variety for hanging baskets. Color soft peach pink	.15	1.50
SABRINA. Light scarlet, semi-double and a very free bloomer	.15	1.50
WILLY. An extra good bright scarlet	.15	1.50

Double Geraniums

DE QUIERELLE. Distinct shade of violet purple	.15	1.50
LA PILOT. Brilliant scarlet, one of the best doubles of its color	.15	1.50
MAD. LANDRY. Clear salmon, shaded to copper, with a white eye	.15	1.50
BEAUTE POITEVILLE. A beautiful type of semi-double Geraniums. Exquisite salmon pink flowers. Very large	.15	1.50
JEAN VIAUD. Rosy pink with white center	.15	1.50
M. CONOVAS. A superb dark crimson scarlet	.15	1.50
THOS. MEEHAN. Bright pink, upper petals stained orange	.15	1.50
TRIOMPHE DE NANCY. Carmine red with white center	.15	1.50

GERMAIN'S CHOICE CANNAS

In the whole range of summer flowering plants there are but few which are more useful in the obtaining of color effects over a long and extended period than Cannas. Their principal requirements are an exceedingly rich soil and an abundance of water.

SIX SUPERB NEW CANNAS

	Each
AMERICAN BEAUTY. A splendid new Canna with enormous flowers of a beautiful carmine rose shade. The trusses and individual flowers are enormous. This is a new and unique shade in Cannas. Extra strong roots	.50
BRIGHTNESS. An intense orange scarlet. Flowers of enormous size and a most intensely brilliant color. For bedding purposes it will be found exceedingly useful. Strong roots	.50
LA FRANCE. Tall growing variety with immense flowers and trusses of a clean, even shade of pure pink. The petals are very broad and rounded. Ideal as to shape and color. Unquestionably one of the finest Cannas ever introduced. Price	.50
GUSTAV GUMPPER. Deep rich golden yellow without a trace of any other color to mar its beauty. This is undoubtedly the finest pure yellow Canna ever introduced. A splendid effect can be obtained by planting this in conjunction with various grasses, such as the Crimson Fountain Grass, Eullalias, etc. Strong roots	.35
QUEEN HELEN. A splendid new Canna, a sport from that well-known variety, King Humbert, but differing entirely in color. The flowers are of enormous size, fully 8 to 10 inches; deep rich yellow, handsomely spotted with dark scarlet over their entire surface. The foliage, unlike that of King Humbert, is bright green. The plant attains a height of 6 to 7 feet. The tremendous size of its flowers, trusses and character of growth make it easily one of the most impressive of all new varieties. We have only a limited stock of this variety to offer this season. Strong roots	.50
SAN DIEGO. This new variety is a distinct shade of burnt orange. The individual heads and trusses are of immense size and the trusses clean nicely. It is quite a new color in Cannas and one when it becomes better known will undoubtedly be in large demand. Strong divisions	.50
ALFRED MAUTHER. Deep, rich crimson	.25
FIREBIRD. A new Canna with individual flowers and trusses of imposing size. The blossoms often measure eight inches across	.35
FAISAN DORE. Foliage bronze. Flowers apricot carmine, with golden sheen	.25
HUNGARIA. A superb shade of rich, rose pink	.25
KING HUMBERT. Bronzy foliage. Flowers a distinct shade of reddish scarlet. Enormous as to size	.25
LUDWIG KOPF. Flowers orange and apricot	.25
MRS. KATE GRAY. Orchid flowered. Orange scarlet, overlaying gold	.25
MRS. A. F. CONARD. Rich, salmon pink	.25
PRINCE WEID. Dark, brilliant crimson	.25
R. WALLACE. Bright canary yellow	.25
STUTTGARDIA. Orange scarlet, edge golden yellow, marbled light scarlet	.35
VON OTRANTE. Yellow with center of the bloom brownish crimson	.25

Special Offer—The above set of cannas for $2.75.

FUCHSIAS

GERMAIN'S SUPERB COLLECTION

There are but few people who appreciate the improvements which have been made in Fuchsias during the past few years. Their value for growing either as pot plants or for planting in shady positions in the open ground is well known. If you desire something which is different, something which is larger and better than anything you have hitherto known, we can certainly recommend the superb varieties in the following list.

A Superb Collection of Double Varieties — Each

THREE MAGNIFICENT NEW FUCHSIAS

ANDRE LE NOSTRE. An exceedingly large flowered and free blooming Fuchsia, very double in form. Corolla is a beautiful prune colored shade.

JULIET ADAM. A wonderfully free flowering new pure white variety. The plant is a strong grower and when in season is literally covered with its handsome double blooms.

DOLLAR PRINCESS. Although we grow a very fine collection of Fuchsias, we doubt if there is a single one in the entire collection which will produce the quantity of blooms to be noted on the plants of this variety. The flowers are only of medium size, but what they lack in size they more than make up for in the quantity of production. As a variety to grow for standards, pyramids or for trailing on trellises, this variety is unsurpassed, the blooms literally covering the plant.

Price of any of the above Fuchsias..... .35 3.50

DIAMANT. Pure white variety, the base of the petals being shaded with carmine. Sepals rose color..... $0.35
EMILE LAURENT. Corolla rose and white. Sepals clear rose. Giant flowering variety..... .35
GENERAL DRUDE. A superb pure white..... .35
G. PORTESI. A sensational novelty, simply enormous as to size. Color clear violet blue with scarlet veining..... .35
GRAPHIC. Sepals scarlet. Corolla gigantic as to size and deep violet purple in color..... .35
JARRY DESLOGES. White toned with rosy carmine at the base of the corolla..... .35
ROSE PHENOMENAL. A beautiful shade of lavender mauve..... .35
SYLVIA. Remarkable for its extremely long pure white corolla. Sepals light scarlet..... .35
TORPILLEUR. Corolla flesh color shaded with Rose. Sepals bright red..... .35
YVES DELAGE. Sepals red. Corolla prune color. Very large..... .35
LE ROBUSTE. Rich violet blue veined with dark rose..... .35
BARON KETTELER. A giant flowered deep rich purple variety with distinct scarlet sepals..... .35
BERANGER. Dark purplish-blue with distinct red sepals. Very fine..... .35
DR. BEHRING. Bluish-purple corolla. Sepals pink. A superb variety..... .35
GENERAL D'AMADE. Corolla dark rosy-pink. Sepals pink. .35
LUCIEN DANIEL. A superb shade of lavender-mauve. Sepals light red. Extra choice..... .35
MRS. GLADSTONE. Enormous flowers. Corolla pure purple, sepals wine red..... .35
MONSIEUR LEQUET. An ultra refined pure double white. Very distinct..... .35
MONSIEUR MORLIERE. Giant violet-purple..... .35
PYTHAGORE. Dark red sepals. Large, handsome violet-colored corolla..... .35
PAUL CAMBON. Carmine red sepals. Bluish-purple corolla. .35
RENAULT MORLIERE. Deep prune color. Enormous flowers .35

Choice Single Varieties

BLACK PRINCE. Rich rose-colored corolla, scarlet sepals.. .35
ELSA. Corolla rosy purple, sepals rose color..... .35
SENSATION. Corolla rose-pink, tinted with violet. Carmine red sepals..... .35
SOUVENIR DE HENRY HENKLE. A hydrid of the triphylla class with blossoms some three inches long, borne in clusters. Large prune-colored foliage..... .35
SWANLEY YELLOW. A beautiful single variety, similar in form to the preceding, with extra long tube and spreading sepals. A distinct shade of orange red. Very fine..... .35

Baby Fuchsias

These so-called Baby Fuchsias are handsome miniature flowered forms, resulting from crosses made between Fuchsia Riccartoni and some of the larger flowered types. If planted in north borders as a background, they are of superb effect. They are of splendid use also, if planted in tubs or pots, as porch plants. Each

BEAUMARCHAIS. Purple..... $0.35
CARMEN. Violet..... .35
ELYSEE. Rose-pink and white..... .35
FLORIAN. Purple..... .35
L'ENFANT PRODIGUE. Violet purple..... .35
MINOS. Dark purple..... .35
MICROPHYLLA. Rose-pink..... .35
MRS. ALICE HOFFMAN. Clear white..... .35
MRS. JOSEPHINE FRANKENFIELD. White..... .35
NESTOR. Royal purple..... .35
RONSARD. Violet..... .35
RICCARTONII. Bluish purple..... .35
TELEGRAPH. Purple..... .35

FUCHSIA

HELIOTROPES

MADAM BRUANT. A distinct shade of light purple, of splendid dwarf habit..... Each .35
SNOW WREATH. The best of all pure white heliotropes. The trusses of bloom show a lavender suffusion..... .35
TALL DARK. Rich deep purple flowers. A very vigorous tall growing variety..... .35

VERBENAS

There are but few plants more desirable for bedding purposes than Verbenas. They produce a bright and lasting mass of color through the major portion of the year. You will find the named varieties to be noted below exceedingly choice.

These plants are ready March 1st.

CRIMSON KING. The largest flowered Verbena in existence. The individual flowers in the truss will cover a half dollar. It has a color unequalled by any other Verbena we have ever seen, being one of those deep glorious crimsons that catches the eye at once..... Each $0.15 Doz $1.5
ELLEN WILMOTT. Unquestionably the best of all deep rose colored Verbenas. Flowers and trusses of splendid size with a color tone of charming effect..... .15 1.5
LAVENDER QUEEN. This variety is also the result of our crosses. The color is a beautiful shade of pure lavender. Trusses extra large..... .15 1.5
MRS. CLEVELAND. The best pure white Verbena to date. Almost equal to Crimson King in size... .15 1.5
PURPLE KING. A vivid bluish-purple and unquestionably the best of its color..... .15 1.5
SCARLET QUEEN. This splendid variety is the result of our work in the improvement of Verbenas. It is a facsimile in so far as size is concerned, of our variety Crimson King, but the color is lighter, being a deep rich velvety scarlet..... .20 2.0
MAMMOTH MIXED VERBENAS. Where no definite color effect is required, these Verbenas will be found particularly useful. The plants bloom within a short time after being planted out, and continue from early Spring until late Autumn, producing an unbroken carpet of rich and varied colors. Strong plants from 2-inch pots, ready March 1st..... .15 1.5

GERMAIN'S CHOICE DAHLIAS

The Dahlia needs no introduction to any one interested in gardening. Like the Chrysanthemum it has come to be Everybody's" flower. There have been great improvements made, however, in Dahlias during recent years, and n the following list will be found a collection second to none.

Most of the varieties noted in the following list we can supply as dormant roots, but as our supply of these is often xhausted early in the year, we are occasionally obliged to send out green plants, but these flower equally as well as he tubers and can be planted with an assurance of a fine crop of Fall blooms if planted as late as the first of July.

FOUR MAGNIFICENT NEW DAHLIAS

REBALL. A grand Cactus Dahlia, fiery red in color. The blooms are of ultra-refined cactus shape with long quilled, incurved and interlaced petals. A remarkable feature of this Dahlia is its immense size. A sensational novelty any way you take it 1.50

NK BEAUTY. A beautiful Cactus Dahlia of immense size, refined form and with splendid stems in one of the most wonderful shades of color to be found. The blossoms attain a diameter on disbudded plants of eight to ten inches. The petals are outstanding, beautifully quilled and in color a most delicate shade of lavender pink, shading lighter at the center. Flowers borne erect on stout stems. A splendid variety for cutting purposes 2.00

RIMROSE DAME. One of the loveliest Dahlias in our entire collection and one that we feel sure will please the most critical. The color combination is quite distinct from that of any other variety which we know of. The ground color of the flower is primrose yellow overlaid with coral pink. The flower is of the cactus decorative type with beautifully curved and twisted petals. The flowers are poised on the ends of long stiff stems. Extra good for cutting purposes 2.00

NOWDRIFT. Unquestionably one of the finest white Cactus Dahlias ever grown. The color is a glistening snowy white. As white as driven snow. Combined with its wonderful shade of color is its exquisite form and the fact that the flowers are borne on strong stiff stems, the flowers being held in bold relief well above the foliage 2.50

SPECIAL OFFER

ne each of the above magnificent Dahlias for **$7.00**

New and Scarce Cactus Dahlias

This collection of Dahlias have the long pointed quill, interlacing incurved or reflex petals. They are similar to Chrysanthemums and taken as a whole are undoubtedly the most graceful of all of the various types. The following selection is an exceedingly choice one.

	Each
AJAX. A curious combination of yellow and buff	$0.35
ALIGHT. Beautiful incurved quill petals. Color rich fiery orange	.35
A. D. ROBINSON. An exquisite shade of lavender pink. Petals forked and bifurcated	.50
BUTTERFLY. Crimson with conspicuous white tips	.35
DAISY EASTON. Pure rich lemon yellow	.35
DIABLO. A handsome bi-color variety. Yellow shaded with rose at tips of petals	.35
E. BONNEFOND. An intensely brilliant scarlet	.50
FASCINATOR. Deep rosy crimson	.50
FLAG OF TRUCE. A splendid pure white	.35
GLORY OF WILTS. Golden yellow. One of the best	.35
IBIS. A splendid shade of deep orange	.50
J. C. RIDING. Deep rich yellow with apricot shadings	.35
J. H. JACKSON. Dark maroon	.35
MRS. RUESS. Primrose and pink. Enormous size	.50
MRS. S. B. HOLMES. The best dark crimson maroon Dahlias in existence	.50
MRS. STERN. Light lavender pink	.50
MRS. SHOESMITH. A lovely pure white	.35
MRS. C. F. KEANE. Rich crimson	.50
MRS. J. B. CHAFFEY. Shell pink. Extra fine	.50
MRS. H. E. COLLINS. Pure salmon pink	.50
MRS. K. JOHNSTONE. Splendid deep rich Rose	.50
NELSON. Ruby crimson. Interlacing quill petals	.35
NIBELUNGENHORT. Enormous flowers. Color apricot toned with rose	.75
RUBY GRINSTEAD. Faun yellow	.50
SUCCESS. An elegant pure yellow. Petals incurved	.50
THOS. PARKIN. Light Terra Cotta. Very fine	.35
WODAN. Light rose with gold tinting	.50
WALKUERE. Extra large. Pure golden yellow. See cut page 114	.50
GOETHE. Apricot suffused carmine	.50
AURORA. Reddish-apricot, suffused flesh-pink	.50
CONTRAST. Rich crimson-scarlet, beautifully tipped with white	1.00
GOLDEN WEST. Deep apricot-yellow. Splendid for cutting.	.50
MILDRED JONES. Similar in shape to Contrast. Flowers deep rich rose in color	.50
M. INMAN. A grand long stemmed orange-scarlet. One of the best of this shade	.50
MR. A. P. HOWARD. Rich crimson-scarlet. Extra fine	.50
VICTORY. Delicate rosy-pink, prettily suffused with white.	.50
PERLE LYONNAISE. Magnificent pure white. Bifurcated petals	.50

Pompon Dahlias

The elegant miniature flowered forms have become very popular of late. Mixed with ornamental grasses and used in vases as cut flowers they produce an extremely decorative effect. The following are six of the best:

	Each
DARKNESS. Almost black. Very dark maroon	$0.35
FLORA. Golden yellow	.35
JESSICA. Red and amber	.35
LEILA. Reddish buff, tipped white	.35
RED INDIAN. Deep scarlet	.35
WHITE ASTER. Pure white. Imbricated form. See cut page 117	.35
ARTHUR WEST. A deep rich crimson	.35
CENTIFOLIA. Beautiful pink	.35
DOUGLAS. Maroon	.35
FLORENCE. Yellow	.35
ISOBEL. Red	.35
MEPHISTO. Blackish maroon	.35
ROSEA. Rose-pink	.35

GERMAIN'S CHOICE DAHLIAS

See page 113

Decorative Dahlias

These are the large flat petaled types. The flowers are generally of magnificent size and substance. One of the best for cutting purposes.

	Each
CROWN OF GOLD. A unique shade of golden orange	$0.50
DELICE. Bright rosy pink. Extra choice	.50
ELY GUMPERT. Large double flowers. Clear pink	.35
GIANT OF STUTTGART. Deep blood red	.50
HORTULANUS FIET. Shrimp pink tinted rich yellow	.75
JEANNE CHARMET. Soft rosy pink	.35
LA FRANCE. Immense pure pink flowers	.35
LE GRAND MANITOU. Handsome bi-color. Striped purple on a rose ground. See cut page 100	.35
MONT BLANC. A grand pure white Dahlia	.35
MRS. ROOSEVELT. Enormous light pink	.35
MAD. A. LUMIERE. White tipped purple	.35
MINNIE BURGLE. A wonderful pure rich scarlet	.35
SOUVENIR DE GUSTAVE DOAZON. Rich fiery red	.35
YELLOW COLOSSE. Immense pure yellow	.35
ENTENDARD DE LYON. Giant Carmine Rose. A lovely shade of color combined with immense size. Distinct Cactus form	.50
FLAMINGO. A Decorative type of a brilliant, glowing rose pink shade	.50
GLOIRE LYONNAISE. Another Decorative Dahlia which should be in every collection. Bright golden yellow toned with Rosy carmine at tips of petals	.50
CRIMSON GIANT. Crimson-red	.50
MADONNA. White. Very good	.75
PROFESSOR MANSFIELD. Yellow and pink	.50

Collarette Dahlias

An elegant collection of single Dahlias with a distinct collar surrounding the central zone. These are unique in many ways, the collar very often being distinct to the color noted in the petals of the flower.

	Each
COMTE CHEREMTEFF. Deep vermillion and orange. Collarette white	$0.35
DUCHESS MILZE DE ERIL. Orange scarlet. Collarette white	.35
HARMON PAYNE. Wine crimson. Collarette white	.35
MADAM GYAX. Collarette yellow. Petals deep red, tipped yellow	.35
MADAM POIRER. Collarette white. Petals deep purple	.35

Choice Show Dahlias

These are the old fashioned Dahlias of formal character with close set petals. They are quite distinct from the Cactus form and are preferred by many, owing to the fact that the flowers keep better when cut. The following is a comprehensive list containing all colors, each variety being the best representative of its particular shade.

	Each
ANNIE MOORE. Dark velvety crimson	$0.2
HUGH AUSTIN. Rich orange scarlet	.3
J. C. VAUGHAN. Bright yellow	.3
JUNGFRAULISCHE. A grand pure white	.2
MRS. GLADSTONE. Pure silvery pink	.3
MRS. SAUNDERS. Deep yellow tipped white	.3
PURPLE GEM. A rich purple	.3
SPITFIRE. Bright scarlet	.3
SUNSET. Yellow flaked with gold	.3
CALEB POWERS. Shell pink Show Dahlia, even more delicate in color than Mrs. Gladstone	.5
DOROTHY PEACOCK. A Rose pink Show Dahlia. Splendid stems. Exquisite as to color	.5
DREER'S WHITE. Pure white	.5
MAX DEEGAN'S ZOGLING. Rosy apricot and orange	.3
RUBY GEM. Rich ruby-red	.3

Peony Flowered Dahlias

A splendid class with semi-double blossoms with large wavy petals, more or less informal in make-up and exceedingly decorative in character. We recommend these very highly for use as cut flowers.

	Each
ADMIRATION. Rosy crimson with buff shadings	$0.3
BARON DE GRANCY. A superb creamy white	.3
COMTE DE LA PARX. Old rose with a suffusion of gold	.5
CORALINA. Rich carmine	.3
DR. GORKOM. White with rose shadings	.3
GOLDEN WEDDING. Pure golden yellow	.5
No. 952. Orange scarlet shaded with yellow	.5
No. 967. Blackish maroon	.3
No. 990. Pure white striped and splashed purple	.3
No. 1002. Brilliant scarlet. Extra large	.3
A. C. IDE. Crimson. Very fine	.3
A. SCHUTTEVAER. White ground with lilac suffusion. Extra good	.3
THE BRIDE. White. Very good	.3
No. 935. Snow white. Extra fine	.3

Single Dahlias

PINK CENTURY. Light pink	.3
WILDFIRE. Deep fiery scarlet	.3

Spring and Summer Flowering Bulbous and Tuberous Rooted Plants

NEW GIANT AMARYLLIS

A superb strain of large flowered Amaryllis, remarkable alike for enormous size of the individual blooms and for the wide diversity of colors which they contain. One of our first size bulbs will show several spikes of bloom in the Spring and flower again in the Autumn.

This strain is the result of many years of effort by a skillful hybridist on the improvement of this class of plants. No adequate idea can be gained of their glorious colors. They range in color from pure white ground color with its markings of rose, red, etc., to orange, cherry, crimson, maroon, mottled, striped, etc.

Aside from their value for planting in the garden they can be also grown in pots and when so handled make very decorative indoor plants. The bulbs can be planted at any time during the Spring, but not later than April 15th.

	Each	Doz.
GRADE A. First size, selected flowering bulbs which will bloom this Spring. Perfect in color, form, size and substance. Every one a gem	$1.00	$10.00
GRADE B. First size selected bulbs, full flowering size, not quite as perfect in form and color as the preceding, but superior to any other strain on the market. Assorted colors	.75	7.50
AMARYLLIS BELLADONNA. Lovely Rose, with a lighter colored throat. As this variety loses its foliage before the flower spikes issue forth, care must be taken not to disturb the bulbs at this period. August is the time of flowering. Mammoth bulbs	.35	3.50
AMARYLLIS FORMOSISSIMA. An original species, native of Mexico, with narrow reflexed and spreading petals. The color is an intensely rich deep crimson. This variety is of superb effect when used as a cut flower and forms attractive masses of color in the garden as well	.35	3.50

AGAPANTHUS

UMBELLATUS. Among the various Summer flowering bulbs there are but few which grow as easily or are more effective in the garden in so far as their bloom is concerned, than well grown clumps of Agapanthus. The variety in question produces a continual succession of strong flower stems each crowned with large umbels of deep blue flowers. A splendid effect is obtainable by planting them in lines and they are also very effective as tub plants.

Fine Strong Clumps	.50	5.00
Medium Size Plants	.35	3.50

GERMAIN'S PRIZE CYCLAMEN—Note the Splendid Habit

CALLA LILY

	Each	Doz.
CALLA LILY. The historical and well known white Lily of the Nile. Strong flowering roots	.20	2.00
GOLDEN CALLA. The famous golden yellow Calla of Central Africa. Blossoms identical in form to the white Calla, but of a rich golden yellow color. The foliage is beautifully spotted with white on a green ground. Extra fine, first size flowering bulbs	.50	5.00

CYCLAMEN

	Each
CYCLAMEN. Our stock of these is a large one and the strain is exceedingly choice. Aside from the value of Cyclamen as pot plants they make ideal subjects for planting in shady places in the open ground. They are practically indispensable as Winter flowering pot plants for indoor decoration. We have them in all colors from pure white to deepest crimson, salmon, pink, rose, etc. Strong young plants in pots	.35

ISMENE

CALATHINA GRANDIFLORA. The sacred Lily of the Incas. This beautiful bulbous plant attains perfection with little or no attention. The large blooms are intensely fragrant, pure white in color with greenish bands at the base of the throat. Extra strong bulbs	.35

LYCORIS

SQUAMIGERA. A little known bulbous plant, similar in form and color to the Amaryllis Belladonna, but differing from it in its time of bloom. It sends forth in August strong spikes of bloom of a beautiful pink shade. Strong Bulbs	.35

GLADIOLUS

	Each	Doz.
GERMAIN'S PRIZE MIXED. Our strain of Gladiolus is one of exceedingly high quality. The spikes are of immense size and the range of colors is wide. By making successive plantings of these from Autumn right through Summer an almost endless display of flowers may be obtained. Extra choice, mixed, all colors	.15	1.50
AMERICA. A lovely pure appleblossom pink Gladiolus. Ideal for cut flower purposes. Usually has from ten to twelve open flowers on the spike at one time	.10	1.00

IRIS

New French Hybrids

A wonderful new lot of hybrids between the Pallida section and those of various other dwarf flowering groups. These beautiful Iris will grow and thrive in any state of the Union. They withstand both heat and cold. The flowers, like the mother parent, Pallida, are of enormous size, usually borne on stems two and a half to three and a half feet in length, with three and four flowers open on a spike at one time. They begin to bloom in Early Spring when flowers are very scarce.

This class of Iris has been relatively referred to as "The poor man's orchid," but in our opinion they are superior to orchids in point of beauty, both as regards their delicate colorings and the ease with which they may be grown.

ALCAZAR. Enormous flowers of a lovely clear violet purple and blue shade ..... Each $0.35
AMOS. A gem. Standards lavender blue. Falls clear violet. .35
CAPRICE. Enormous pure violet blue flowers ..... .35
ELDORADO. A unique shade in this class of Iris, ground color being yellow overlaid with brown and blue ..... .35
ISOLENE. A giant in every sense. The stems attain a height of three and a half feet. Color blue overlaid with brown. A wonderful variety ..... .35
JEANNE d'ARC. A lovely combination of colors, the ground color being pure white and the edges of the petals edged and rimmed pale blue ..... .35
LOUTE. Another giant flowering variety. Standards pale Lilac, Falls deep rich blue ..... .35
TAMERLANE. Enormous flowers. In color a beautiful combination blue and purple ..... .35
PROSPER LANGIER. One of the most remarkable of all varieties. The standards of the bloom are a peculiar shade of brown. The Falls are deep maroon margined with golden yellow and penciled with brown at the edges. .35
ORIFLAMME. Standards light blue. Falls dark purple ..... .35
ARCHEVEQUE. Standards a wonderful shade of reddish purple. Falls dark velvety purple ..... .35
CHERUBIM. We are offering this superb new Iris for the first time this season. It is one of the finest of the new hybrids which has come under our notice. Standards, lavender. Falls, violet, veined with white ..... .50
CANDELABRE. A superb sort. A lovely shade of pale blue, veined and marked with purple ..... .50
INGEBORG. Pure white. Extra large flowers of handsome form ..... .35
PARISIANA. Standards mottled lavender pink. Falls have creamy white center, bordered with lavender pink ..... .50
HALFDAN. Standards and falls creamy white ..... .35
GOLDEN FLEECE. Handsome light yellow Iris. Height, about 18 inches ..... .35
HELGE. Standards lemon-yellow. Falls deep yellow, with orange beard ..... .35

IRIS—ISOLENE

LOHENGRIN. Flowers of immense size. Standards mauve, falls violet ..... Each .35
MRS. REUTHE. Very free blooming and early flowering variety. Standards delicate lavender-blue, falls somewhat lighter in color ..... .35
NIBELUNGEN. Standards faun-yellow, falls violet-purple, with faun margin. Very beautiful ..... .50
NUEE d'ORAGE. Standards slate-gray. Falls bronze and purple. Extra large flowers ..... .35
THE BRIDE. Standards and falls white, with primrose beard. Very large and handsome. Plants of medium height only. .35
VICTORIA LOUISE. Standards pale sulphur yellow. Falls rich plum color, with cream-colored edges ..... .35
WALHALLA. Standards lavender, falls wine-red ..... .35
ZEPHYR. Lavender-blue flowers. Medium size, but produced in great profusion ..... .35

Iris Kaempferii

The latest introductions from Japan in this magnificent class of Iris are marvels of beauty. The flowers often reach a diameter of ten inches, and the colors and combinations of delicate shades in both single and double forms simply baffle description.

Our collection comprises over fifty of the very finest varieties in existence. The clumps which we offer are grown at our Rivera bulb fields and are models of health and vigor. We offer you an unsurpassed collection of about fifty varieties, double and single blossoms, all colors mixed:— Each Doz.
Large Clumps $0.50 $5.00

TUBEROSES

TUBEROSES. Well known and universally admired for their pretty spikes of waxy white and deliciously scented flowers. We offer you splendid roots of these ready for delivery from December on $0.15 $1.50

PELARGONIUMS

(Lady Washington Geraniums)

In addition to the three splendid varieties offered in our novelty list of the present season, we direct your attention to the following very fine sorts. There is a growing demand for good Pelargoniums and we feel certain that our customers will be more than pleased with any of the following list.

TWO NEW PELARGONIUMS

Each

SENSATION. An immense flowered deep red colored variety, with each of the petals beautifully blotched and striped with velvety black ..... .50

MISS EDITH CAVELL. Although in other pages of this catalog we offer you many fine varieties of Pelargoniums, there is none in the entire collection to exceed in beauty this superb novelty which we are now offering you for the first time. It is not only remarkable for its size, but also in its superb color effect. The petals are large and beautifully rounded. The ground color is pure white and each of the petals handsomely blotched with velvety maroon .. .50

ANNA RUDLOFF—Rich dark red, immense black blotches ... .35
EXHIBITION OF MOSCOW. Dark rich purple with black blotches ..... .35
EXHIBITION OF LONDON. Reddish scarlet with distinct white center. Two upper petals blotched black ..... .35
ANITA. One of the largest flowering of all Pelargoniums. Individual blossoms three inches across. Center of flower white beautifully margined bright rose. Upper petals feathered dark crimson ..... .35
BERTHA WAGNER. A delightful shade of carmine Rose, each of the petals feathered with white ..... .35
BLUE MABEL. Carmine purple, with black blotches ..... .35
DUCHESS OF WESTMINSTER. Ground color pink and white with crimson blotches ..... .35
MRS. KRUMB. A lovely shade of pale soft rose with upper petals blotched purplish red ..... .35
JOHN MARTIN. Beautiful light purplish maroon ..... .35
KATE BORNEMANN. Mother of Pearl pink blotched with rich crimson. Magnificent ..... .35
MISS SAUNDERS. Pure white, beautifully blotched with purplish crimson ..... .35
MAD. THIBAUT. Pink with white shadings. Petals beautifully ruffled ..... .35
OLYMPE. Finest of all pure whites. Snowy white ..... .35
PROFESSOR CORRENS. Rich rose with dark blotches ..... .35
PETER HOSER. Black blotches on each of the petals, with a ground color of fiery brick red ..... .35
BALKONIGEN. An immense flowered, light rose-colored variety. Extra fine ..... .35
CORNELIE. Soft rose, white at center with maroon blotches .35
F. H. HOWARD. Dark reddish scarlet with conspicuous black blotches on the upper petals ..... .35
ILLA. Salmon-rose, handsomely blotched on upper petals ..... .35
MARTHA BURGER. Bright salmon-rose. Compact and remarkably free blooming ..... .35
MONTEBELLO. Delicate pink, blotched with white ..... .35
PAULINE SHROETER. Deep rosy carmine with dark blotches .35
VOLANTE NATIONALE ALBA. A grand pure white variety .. .35
DUCHESS OF CORNWALL. Large flowered, deep purple maroon ..... .35
LORD CLYDE. White veined and flushed light purple ..... .35
MRS. E. H. CHILDS. A splendid variety with deep rosy pink flowers, the color being uniform throughout ..... .35
MABEL. Upper petals maroon, lower ones bright rose ..... .35

Vines—Germain's Selection of Hardy Varieties

Included under this section are those various varietiesand species which can be used in sections where the climatic conditions are harsh in the extreme. Nearly allof them will stand considerable frost and heat. In dry sections an abundance of water should be furnished dur-ing their growing period, i.e., summer. The plants which we offer you are all splendid, established, pot-grown stockwhich can be shipped long distances with perfect safety.

AMPELOPSIS (BOSTON IVY)

	Each	Doz.
VEITCHII. An extremely ornamental vine with splendid, broad foliage and a self-clinging habit. It attaches itself by means of aerial roots to brick or stone, or even wood. During autumn the leaves assume a reddish copper tint and are extreme'y ornamental. It withstands many degrees of frost without injury. In particularly warm sections it is best adapted for the shady side of the house. Strong plants from 4-inch pots	$ 0.50	$ 5.00

BIGNONIA

(See page 100)

	Each
MADAM GALEN. A splendid type of the hardy scarlet flowering Bignonia and a big improvement on the ordinary Grandiflora so common in the South. The blossoms are tubular, three to four inches long and about the same distance across the face of the open flower. This plant is extremely valuable for sections like Arizona, Texas, New Mexico, etc. It is deciduous, losing its eaves for a short time during the winter period. We strongly recommend this vine, not only for its beauty, but for its adaptability to many sections. Strong, grafted plants	$1.50

HEDERA

	Each	Doz.
HELIX. True European or English Ivy, suitable for planting on buildings in any locality, being perfectly hardy in any climate. Its bright, glossy evergreen foliage makes it a fine subject for ground covers in shady places. It has a self-clinging habit and requires no support whatever	$0.50	$5.00

See page 121

See page 113

HONEYSUCKLE

(See page 100)

	Each	Doz.
BELGICA. This splendid Honeysuckle makes an ideal plant as a bank cover. It is also suitable for covering fences, pergolas, etc. The blossoms are exceedingly fragrant and produced in great profusion during early spring. Flowers tubular in shape, red and yellow in color. Strong plants	$ 0.50	$ 5.00
RETICULATA AUREA. Amongst the types of variegated Honeysuckles, this is undoubtedly the best of all. The foliage is light green, marbled and marked with yellow. Flowers white	.50	5.00
HALLEANA. Hall's golden yellow Honeysuckle. A good, hardy variety for any purpose. Flowers are a handsome combination of pink and yellow in color. It is a strong, free grower, one of the best.	.50	5.00
MACRANTHA. A variety with handsome, light yellow flowers. These are delightfully fragrant and produced in wonderful profusion	.50	5.00

VINCA

As plants for hanging baskets, window boxes or for covering banks, there are but few plants more hardy or better adapted than the various types of Vincas. We offer four of the best varieties:

	Each
MAJOR. Large dark green foliage, with beautiful sky-blue flowers	$0.15
MAJOR VARIEGATA. The foliage of this variety is handsomely marked with green and yellow. Flowers blue	.15

VINES—Germain's Selection of Tender and Half Hardy Varieties

Included in the following list are such as will not stand much frost. In general, they will not do much outside in a climate where the temperature goes below the freezing point, although some of them will stand three to four degrees of frost. All of them, however, are splendid for planting in warmer sections.

ANEMOPAEGMA

Each

PURPUREUM. This lovely tropical vine has flowers of a reddish purple color and is distinct in color from any vine we know of. The blossoms are not large, being only about one-inch across, but are produced in great profusion. It is an ideal thing for trellises, pergolas, etc. Strong plants. **$0.75**

ANTIGNON

LEPTOPUS. An exceedingly handsome vine, native to Mexico. It bears numerous racemes of deep rose-colored flowers. A climber of superlative beauty ..... .75

BIGNONIAS

Amongst all the various vines suitable for the warmer sections of the country, we know of nothing which will produce the abundance of flowers, coupled with splendid foliage, as the various Bignonias. They will not grow in sections where there are many degrees of frost, although a few of them will withstand four to five degrees. Where they can be planted, however, they are amongst the handsomest of our climbing vines.

Each

CHERERI. For the warmer sections of the United States, this is undoubtedly one of the grandest of all of the Bignonias. Not only is it beautiful in so far as its foliage is concerned, but during mid-winter produces masses of brilliant, rich, blood-red flowers, trumpet-shaped and over three inches across. It grows with great rapidity. As a subject for covering arbors, the south aspect of buildings, pergolas, etc., it is unexce led. Strong plants ..... .75

TWEEDIANA. A dainty species with a clinging habit, similar to that noted in vines like Ivies, Ficus Repens, etc. For hot, sunny walls, this vine is unexcelled. During spring it is covered with quantities of bright, canary yellow blossoms ..... .75

VENUSTA. A variety bearing enormous quantities of long, tubular blossoms, in color a splendid shade of pure, rich orange. The clusters hang in great profusion over the entire vine. It blossoms during mid-winter. Will not stand much frost. Extra strong plants ..... .75

VIOLACEA. This particular variety has splendid foliage. It is rich, dark green in color. The flowers are deep purple and borne in tremendous clusters ..... .75

BOUGAINVILLEAS

See page 100

Like Bignonias, these plants will not stand much frost, but will do well in any section where a warm climate prevails. They also make splendid subjects for growing in greenhouses, as they come into blossom during mid-winter, when flowers in most sections are usually scarce. The following are amongst the best:

Each

GLABRA SANDERIANA. Flowers of medium size, but borne in such profusion as to almost completely hide the foliage. The bracts are light carmine purple color. Extra fine plants from 6-inch pots **$1.00**

CYPHERI. A pretty, rosy purple colored form. The flowers are very large. Foliage a distinct glossy green. Strong, rampant growing variety. Strong plants **1.00**

SPECTABILIS. Undoubtedly the largest flowered of all the Bougainvilleas. The bracts are produced in immense heads and are bright glowing purple in color. It is quite tender; will scarcely stand any frost at all. Strong plants **1.00**

BRAZILIENSIS. A very free growing Bougainvillea with bright glossy green foliage and immense trusses of beautiful carmine rose flowers. The color in this variety is very distinct and the plants blossom almost without intermission throughout the year. Like all other varieties of Bougainvilleas it is only suitable for warm sections of the country. Highly recommended.
Strong plants from three-inch pots **1.00**

HOYA (WAX VINE)

Each

CARNOSA. A well known and highly prized vine which does well in shady places and also makes an elegant specimen pot plant for interior decoration. It can be grown and flowered in an ordinary pot inside. The flowers are waxy pink and freely produced. Strong plants in 5-inch pots. **$0.75**

FICUS

Each Doz.

REPENS. Well known and greatly prized throughout Southern California as a cover vine for the sides of buildings, walls, etc. It makes a dense mat of small, dark green leaves; retains its foliage at all seasons. Large plants ..... .35 **$3.50**

NEW SALVIA "OSTRICH PLUME" (See page 123)

JASMINE

Each

AZORICUM. A handsome species of Jasmine with clusters of pure white, star-shaped flowers and large, beautiful foliage. A desirable vine for any sunny position..... .75

LIGUSTRIFOLIUM. A scarce species with handsome, dark green foliage, bearing masses of pure white, starry flowers during spring and early summer. One of the most graceful growing of all the Jasmines..... .75

PRIMULINUM. A winter flowering, golden yellow Jasmine, from China. The blossoms are very bright in color, about two inches in diameter, and are borne in great profusion. This is a very rapid growing variety and comparatively hardy..... .75

REVOLUTUM. A semi-climbing form with intensely fragrant, golden yellow blossoms. This is the popular golden yellow Jasmine of the South..... .75

OFFICINALIS. Pure white, star-shaped flowers, intensely fragrant. Grows with great rapidity. Strong plants..... .75

KENNEDYA

The vines under this head are natives of Australia and are particularly adapted for California gardens. The flowers are pea-shaped, small in size, but are borne in wonderful profusion during winter and early spring. The variety Purpurea is scarce and one of exceptional beauty.

Each

ALBA. A beautiful variety with pure snow-white flowers... $ 0.75

PURPUREA. Rich violet blue. Long racemes of elegant, pea-shaped flowers and splendid evergreen foliage..... .75

MANDEVILLEA

Each

SUAVEOLENS. A South American climbing plant which will stand several degrees of frost without injury. It bears handsome, pure white flowers about two inches in diameter. These are intensely fragrant. Ideal for pergolas, porches, etc..... $0.75

See page 121

NEW HYBRID AQUILEGIA OR COLUMBINE

MUEHLENBECKIA

MUEHLENBECKIA (Australian Wire Vine). There is a daintiness and grace about this vine not to be found in any other. When in full leaf it has a beautiful, fern-like appearance. The leaves are only minute, but thickly cover the plant. It is splendid for covering posts and pergolas and is also useful as a basket plant..... $0.75

PITHECOCTINIUM

MURICATUM. A handsome, rapid growing species not unlike a Bignonia in general character. The blossoms in early spring completely cover the plant. They are a rich, creamy yellow in color and about one-inch across. For a hot, sunny position, this vine is indispensable. It is a clean, fast grower..... $0.75

PLUMBAGO

CAPENSIS BLUE. This Vine may be either treated as a bush or as a vine. It is semi-climbing only in habit. It is covered during summer and fall with lovely, pale blue flowers. Strong plants in pots..... $0.75

CAPENSIS WHITE. Exactly the same as the foregoing variety, but with pure white flowers..... $0.75

SOLANUM

The rapid growth of the various species of Solanum and their adaptability for warm, sunny locations places them in the front rank of various tropical vines. We offer two of the best:

Each

JASMINOIDES. The blossoms of this variety are carried in good sized umbels, their color being white with shadings of purple. An ideal plant for covering fences, etc. Strong plants..... $ 0.75

WENDLANDII. Undoubtedly the handsomest of all the tropical species of Solanum. The foliage is enormous and the plant is covered during its blooming season with gigantic trusses of flowers, the individual blossoms being one and one-half to two inches across. This Vine is only of value in cold sections as an indoor plant. For Southern California or other warm climates, it is unsurpassed for outdoor plants..... $0.75

STREPTOSOLON

JAMESONII. This plant is only half climbing in habit and may be treated either as a shrub or vine. It bears dense masses of brilliant orange red flowers. It does particularly well in any hot, sunny position. Strong specimens..... $0.50

TECOMA

The various Tecomas are closely allied to the Bignonias, which they resemble in form of flowers, disposition of foliage, etc. As with Bignonias, they are only suitable for warm positions.

Each

AUSTRALIS. One of the rankest growing of all the species. The foliage of this Vine is ideal, being thick and leathery. In the new growth it is beautifully bronzed. Strong plants..... $0.75

CAPENSIS. Flowers bright scarlet, tubular in form, similar to a Honeysuckle. Delights in a warm, sunny position. .75

JASMINOIDES. One of the most elegant of all of the various Tecomas. The foliage is of bright and glossy green. The large, tubular flowers are pure white with a deep crimson throat..... .75

JASMINOIDES ALBA. Similar in general character to the above, but with pure white flowers. This variety is very scarce indeed. At the same time it is one of the most beautiful..... 1.00

REGINA SABA. This handsome Tecoma is similar in general character to Bignonia McKenni, but the flowers are much larger and the colors of the blossoms, if anything, are more beautiful. The shade is a deep rose pink with pencilings of crimson in the throat..... 1.00

THUNBERGII

COCCINEA. A rather tropical Vine, bearing curiously colored red and brown flowers. It is a rampant grower..... .75

VITIS

CAPENSIS. A magnificent species of Evergreen Grape. It is a strong, rampant grower, with large round leaves, which attain a diameter of eight inches. The stems on the new growth are bronzy red. Unsurpassed for planting in warm positions, on fences, pergolas, etc., where dense effects are desired. Strong plants..... $1.00

Herbaceous and Perennial Flowering Plants

The various plants comprised under this heading will be found as amongst the most useful of all garden plants. In general, they last from season to season and with each returning spring, summer or autumn flower in increased abundance. The major portion of them are quite hardy and endure to greater or less degree extremes of heat or frost. The hardy perennial border is one of the most satisfactory of all arrangements to be made with garden plants. With the proper groupings of the various subjects, there is an uninterrupted display of flowers from early spring right up to the autumn and winter frosts.

ANEMONES

The Perennial Anemones or Wind Flowers, as they are more commonly known, are one of the most beautiful of all herbaceous flowering plants. They do best in well-protected, cool, northern exposures. Once planted, they blossom season after season, with an ever-increasing display of color. They are splendid for cut flower purposes, aside from their value as ornamental plants in the garden. The following are four of the best:

	Each	Doz.
JAPONICA ALBA. Beautiful snowy white flowers, borne in large clusters. The snowy white of the petals is accentuated by the mass of golden yellow stamens at the center of the flower. Blossoms about three inches across. Strong pot plants. See cut page 108	$0.25	$2.50
QUEEN CHARLOTTE. A lovely, semi-double form of pleasing silvery pink color. Height four to five feet	.25	2.50
LORELEY. A beautiful, cup-shaped flower, semi-double, fully three inches in diameter. Color a lovely shade of silvery mauve pink	.25	2.50
KREMHILDE. Soft pink, well displayed in its large semi-double flowers, attaining a diameter of four inches	.25	2.50

ACANTHUS

MOLLIS. An ideal plant for back rows in the herbaceous border. It bears long spikes of handsome rose colored flowers, not unlike some of the Salvias in general appearance. Leaves are broad, dark green and handsomely cut at the margins. Strong plants	$1.00	.....

AGATHEA

COELESTIS. Often relatively referred to as the Blue Marguerite. Plants dwarf and compact, covered throughout a long season with myriads of small, blue Marguerite-like flowers. These are splendid for cutting purposes	$0.15	$1.50

AGERATUM

PRINCESS PAULINE. Dainty summer blooming border plant, attaining a height of some six or eight inches and covered during summer and autumn with masses of sky-blue flowers	$0.10	$1.00

ANCHUSA

ITALICA (Dropmore Variety). One of the handsomest of perennial plants. Blossoms of medium size, a beautiful Forget-Me-Not blue, borne on strong stems five to six feet in height. It reminds one of a giant flowered Forget-Me-Not	$0.35	$3.50

ASTERS (HARDY)

The dainty, starry-like flowers of the Perennial Asters and their value either in the garden or for cut flower purposes is well recognized. A dainty effect may be produced by using these Asters in conjunction with other cut flowers. They lend a light, airy effect to bouquets of all kinds. They are hardy in all climates. Our collection of these is an especially choice one.

	Each	Doz.
BEAUTY OF COLWELL. A new, handsome double flowered form. The flowers are an elegant shade of light blue	$0.20	$2.00
FELTHAM BLUE. A splendid, free blooming variety producing masses of starry, bright blue blossoms.	.25	2.50
ABENDROTE. Intensely bright blue flowers of remarkable size	.20	2.00
WHITE QUEEN. One of the freest blooming of all white perennial Asters and one of the best	.20	2.00
CLIMAX. A splendid novelty in perennial Asters. For description, see Novelty page.		

CANTERBURY BELLS

CANTERBURY BELLS. Among the various old-fashioned plants, there are none more popular than Canterbury Bells. For best results, they should be planted in the autumn, as their natural period of blooming is during early spring and summer. Our strain of the Calycanthema or cup and saucer type are especially fine. We can supply these in the various colors, from pure white to rose and blue	$0.15	$1.50

CHENOSTOMA

	Each	Doz.
HISPIDA. A dainty, dwarf rock or border plant, covered during the entire spring, summer and autumn with masses of snow-white flowers. Plants only reach a height of some ten inches and blossom in the greatest of profusion	$0.15	$1.50

COREOPSIS

	Each	Doz.
GRANDIFLORA. A splendid perennial plant producing immense quantities of single, golden-yellow flowers about three inches in diameter. Ideal for cutting purposes and quite hardy	$0.15	$1.50

GIANT SHASTA DAISY—See page 123

MARGUERITE—MRS. FRED SANDERS—See Page 122

BEGONIAS

Fibrous Rooted Varieties

Although these are only hardy in warmer sections of the country, they make splendid pot plants for interior decoration where the Winters are at all severe. In Southern California they may be planted out and left from season to season. If given a proper location, they soon become stately specimens and are continuously covered with flowers. They make ideal subjects to use in conjunction with ferns in rockeries, etc.

	Each	Doz.
ASCOTIENSIS. An elegant free flowering Begonia which blossoms continuously. The blooms are a peculiar shade of red in color. Dainty and free-blooming in character	$0.35	$3.50
FUCHSIOIDES. Handsome Fuchsia like flowers freely produced on long bending branches. An ideal plant for a shady nook. It also makes an ideal grass plant	.35	3.50
HAAGEANA. Extra large foliage, silvery white on the upper surface, dark maroon underneath. The blossoms are extra large and a beautiful mixture of white and rose pink. If it did not possess any blooms it would be a handsome plant for its foliage only. Strong plants	.50	5.00
SCANDENS. This beautiful Begonia is undoubtedly one of the handsomest of all basket plants. It has a drooping habit and dainty clusters of minute white flowers	.35	3.50

COLUMBINE

NEW COERULEA HYBRIDS. Our strain of these new hybrid Aquilegias or Columbines is one of unexceptional quality. The flowers are not only of monstrous size, but have the characteristic long spurs of the wild, Rocky Mountain Columbine. This new strain contains elegant shades of rose, scarlet, purple, lavender, blue, pure white, etc. Once planted, they give additional quantities of flowers each succeeding year. They delight in a somewhat moist, shady position. No garden is complete without at least a few plants of these elegant new varieties. Strong, young plants which will bloom during the coming spring, and summer. See cut page 120	$0.35	$3.50

CUPHEA

PLATYCENTRA. A splendid bedding plant, covered with small tubular flowers. These are bright scarlet in color and shade to white at the tips. Strong plants in 3-inch pots	.15	1.50
HYSSOPIFOLIA. A graceful and useful border plant. For edging purposes it is, in our opinion, superior even to Boxwood. The plant has minute foliage and is covered at all times with small blue flowers. It can be trimmed to hedge form. Rarely exceeds one-foot in height	.15	1.50

DELPHINIUM (HARDY LARKSPUR)

BELLADONNA. This is unquestionably one of the best of all of the various Delphiniums or perennial types of Larkspur. The clumps blossom without cessation from April until the time of frost. They produce an immense quantity of spikes, well filled with lovely sky-blue flowers. They attain a height of from three to four feet and have a free branching habit right from the base. Extra strong, one-year clumps. See cut page 117	$0.35	$3.50

GAZANIAS

For hot, sunny places, the Gazanias are especially useful. They make splendid cover plants. They attain a height of but some three to four inches and during late spring, summer and autumn are covered with masses of yellow or orange-colored flowers some two to three inches in diameter. Ideal for hot, sunny banks or for use as borders in herbaceous gardens.

	Each	Doz.
AURANTIACA YELLOW. Extra large flowers fully three inches across. A beautiful canary yellow color	$0.15	$1.25
AURANTIACA ORANGE. Large flowers of a distinct bright orange colored shade	.15	1.25

GERBERA (TRANSVAAL DAISY)

See Novelty List

GYPSOPHILA

	Each	Doz.
PANICULATA. This lovely hardy perennial plant is often referred to as Baby's Breath. Is of strong branching habit. Reaches a height of some two to three feet and is covered with minute white flowers. It is of especial value for mixing in bouquets, etc., and lends a dainty, airy effect. Field clumps, one year old	.20	2.00

HELIANTHUS (PERENNIAL SUNFLOWER)

There is nothing more attractive amongst hardy plants than the Perennial Sunflower. They can be sown as individual specimens or planted amodgst shrubbery groups. They are remarkably free-flowering, splendid for cutting purposes and always give a bright touch of yellow to the garden. The three varieties noted below are amongst the best.

	Each	Doz.
MISS MELLISH. Lovely single flowers. Blossoms somewhat cactus shape, produced in great masses on canes six to eight feet high	$0.20	$2.00
MULTIFLORUS MAXIMUS. A splendid variety covered with innumerable golden yellow flowers from June to September. Strong plants	.20	2.00
METEOR. Similar to Maximus, but with wide outer guard petals	.20	2.00

HEMEROCALLIS (THE JAPANESE DAY LILY)

These are hardy plants for every garden. They succeed everywhere and no collection of old-fashioned hardy plants could be considered complete without them.

	Each	Doz.
AURANTIACA. One of the largest of all the Hemerocallis. The enormous flowers are sweetly scented and bright golden yellow in color	$0.35	$3.50
AURANTIACA MAJOR. A new variety and without doubt one of the largest of the entire family. A lovely shade of rich yellow	.50	5.00
FLORHAM. A very free blooming light lemon yellow colored variety. One of the freest blooming of all the varieties. Flowers medium size	.35	3.50
SOVEREIGN. A splendid shade of deep rich yellow. Quite distinct from any other variety grown. A very free bloomer	.35	3.50
THUNBERGII. A splendid free flowering sort. The flowers are quite small, and borne on long slender stems. In color a delicate lemon yellow, exceedingly fragrant	.35	3.50

HOLLYHOCKS

	Each	Doz.
CHATER'S IMPROVED. A superb strain of double Hollyhocks bearing tall, handsome spikes of bloom. We can supply these in pure white, cherry red, rose, yellow or dark crimson. If planted in the early Spring strong spikes will be obtainable during the ensuing Summer. Fine strong plants	.35	3.50

LIBONIA

	Each	Doz.
LIBONIA. A dainty plant for window boxes. It possesses pretty evergreen foliage, and bears numerous scarlet flowers, tubular in shape and produced without intermission almost throughout the entire season. Also valuable for hanging baskets, etc. Strong plants in four-inch pots	.35	3.50

LOPEZIA

LOPEZIA. A splendid Winter blooming plant or more or less procumbent habit, bearing masses of dainty, minute flowers. These are borne in great profusion. Excellent for hanging baskets or for planting on moist banks. We offer you these in two colors, pure white and rose	.20	2.00

MARGUERITES

	Each	Doz.
MRS. FRED SANDERS. A beautiful double, pure white Marguerite. Plant in a good sunny spot in the garden. They produce innumerable quantities of flowers from early Spring until late Autumn. Splendid for cutting. Strong plants in pots. See cut page 121	.25	2.50
GIANT YELLOW. A beautiful, deep golden yellow single Marguerite	.20	2.00

PENNISETUM

	each	per doz.
PENNISETUM (JAPONICUM). Although this wonderful Japanese Grass cannot be considered as being new, it possesses splendid value, not only as an ornamental plant in the garden, but for the value of its handsome spikes of pink plumes to be used for mixing with other flowers. A few plants of this should be in every garden. It is quite hardy. The principal essentials for its successful culture are an abundance of water and rich soil. Do not fail to plant a few of these. They will surely please you. Price, strong plants from 3-inch pots	$0.35	$3.50

PENSTEMONS

NEW GIANT FLOWERING. A handsome strain of perennials bearing long tubular, Gloxinia-like flowers in all colors from pure white to pink, crimson, scarlet, etc. Many of the flowers are beautifully mottled and penciled. Strong plants from two-inch pots	$0.20	$2.00

PETUNIAS—GERMAIN'S PRIZE VARIETIES

	Each	Doz.
GIANT SINGLE FRINGED. A grand strain of large flowered Petunias in all shades of color. The blossoms on well grown plants often reach a diameter of five to six inches. Strong plants	.15	1.50

Three Superb New Varieties of Bedding Petunias

BALCONY WHITE. A lovely fringed, pure white Petunia. The flowers are borne in such masses as to completely cover the foliage. They attain a diameter of about three to four inches

BALCONY PINK. Identical with Balcony White. A lovely shade of pure rose pink.

	Each	Doz.
BALCONY RED. A lovely shade of carmine crimson. Fine plants from two-inch pots	$0.15	$1.50

NEW PERPETUAL HARDY FLOWERING PINKS

There have been but few novelties introduced in recent years more useful or beautiful than these superb new hardy Pinks from England. They are the result of crosses between the ordinary hot house Carnations and the small border pink. These Pinks have a delightful clove fragrance.

HAROLD. A beautiful, deeply fringed, pure white flower with intense odor. Splendid for cutting.

MARY. Pale rose pink with maroon-colored center. An exquisite combination of colors. Very fragrant.

PHYLLIS. Pale pink with maroon-colored center.

ROBERT. A very large flower. Ground color is old rose with a deep maroon-colored center.

	Each	Doz.
Young plants from two-inch pots, ready March 15th	.25	2.50

RUDBECKIA

GOLDEN GLOW. This plant is well named. When in full flower it is veritably a Golden Glow. The flowers are about the size of a small double Dahlia and are produced on stems six to seven feet high during the Autumn months. Ideal for cutting purposes. Strong roots, pot grown	$0.20	$2.00
SPECIOSA NEWMANII. A variety of Rudbeckia with dark orange-colored flowers with a deep purple cone-like center, borne on stiff wiry stems three to four feet high. Blooms from July to September. Strong plants	.20	2.00

KENTIA PALM (See page 127)

PYRETHRUM

	Each	Doz.
ROSEUM. A splendid class of winter blooming perennials, with large Marguerite-like flowers produced on strong wiry stems. Our strain includes all colors from pure white to dark crimson, including rose, pink, etc. The foliage is fern-like and the plants are quite hardy	.25	2.50

RUSSELLIA

RUSSELLIA. If you want something of exceeding beauty for a hanging basket or for planting in a window box, a plant of this will add much to any assortment of plants which may be used for this purpose. It has long wiry stems covered with long tubular coral red flowers. Strong plants	.25	2.50

SALVIA

INVOLUCRATA. Amongst all the shrubbery varieties of Salvias, this rare and little known variety is unquestionably one of the handsomest of all. It bears large spikes of beautiful rose pink flowers, the blossoms being quite equal in size to the ordinary summer blooming variety Salvia Splendens. The plants attain a height of 4 to 5 feet and when in flower are of beautiful and ornamental character. Price	$0.50	
LEUCANTHA. Another shrubbery Salvia with handsome violet blue and white flowers. The plants are very compact in habit, the spikes of bloom extend well above the foliage. A splendid bedding or border variety. Price	$0.35	
OSTRICH PLUME. This splendid novelty is a great advance over all of the various bedding Salvias. The spikes, instead of being single are split up into numerous small side branches, each branch being well clothed with tubular scarlet flowers. From this peculiar added growth to the spikes it gets its name. This Salvia is not hardy and should not be planted until after danger of frost is over. Planted during the early Summer it will grow rapidly and make a dazzling mass of brilliant color until frost comes. See cut page 119	$0.15	$1.50
PULCHELLA. A tall growing variety bearing pretty red flowers during the summer months. The flowers are quite small and abundantly produced. Plants attain a height of five feet	.25	2.50
LEUCANTHA. An exquisite species suitable for herbaceous borders. Flowers are a beautiful violet purple and white and are borne in profusion from August to December	.35	3.50

SEDUM

SPECTABILIS. A splendid Sedum plant with thick, fleshy leaves and bright rosy crimson flowers. These attain a height of some eighteen inches. It makes a splendid rock or border plant	.50	5.00

SAXIFRAGA

SARMENTOSA. A fine trailing species. The stems have a reddish cast with green and white variegations on the upper surface of the foliage. An ideal plant for hanging baskets, or as a ground cover in shady beds	.15	1.50

SHASTA DAISIES

ALASKA. The best of all the large flowered single white Shasta Daisies. Splendid long stems, flowers five and often six inches across, on well grown plants. Invaluable for cut flower purposes. See photograph page 120.	.15	1.50

SOLIDAGO

ALTISSIMA. The common Eastern Golden Rod. Splendid spikes of bright golden yellow flowers.	.20	2.00

STATICE

LATIFOLIA. The so-called Sea Lavender. The plants are of tufted character, composed of very broad, long leaves and sending out a much branched growth similar to Gypsophila, which are covered with masses of dainty, pale blue flowers	$0.25	$2.50

TRITOMAS (RED HOT POKER)

For sub-tropical effects in gardens the various Tritomas are of splendid value. Their fiery spikes of bloom and rich grassy foliage make them conspicuous objects in the garden.

	Each
CHRYSANTHA. Light lemon yellow. Four feet high	$0.35
QUARTINIANA. The largest of all the various Tritomas. The immense spikes of bloom are a dazzling shade of yellow	.50
PFITZERII. A constant blooming variety with spikes four to five feet high. Color a rich shade of orange scarlet	.35
HENRY A. DREER. A very tall growing sort. The spikes of bloom are orange scarlet in color. Extra choice	.50

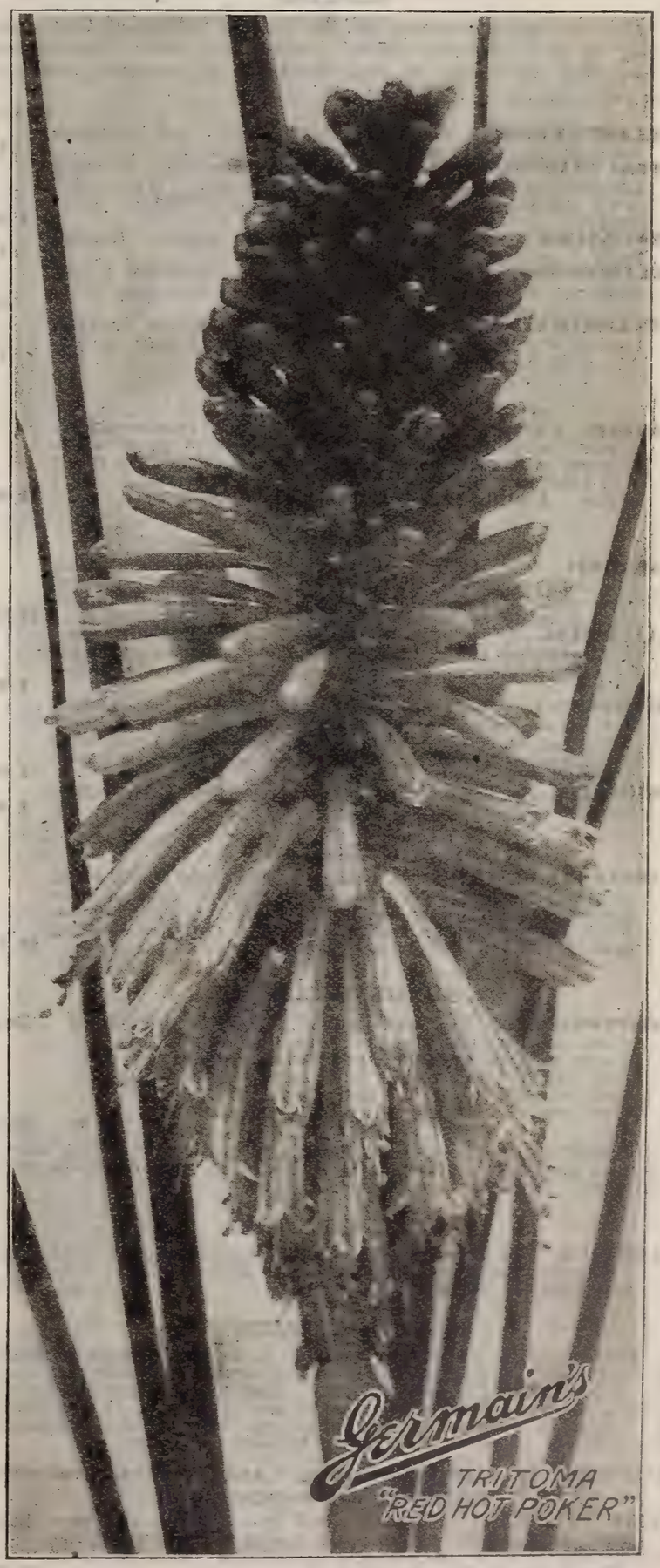
VIOLETS

Three of the choicest varieties. All pot grown plants.

	Each	Doz.
PRINCESS OF WALES. A long stemmed deep blue Violet. Blossoms exceedingly large and deliciously scented	$0.10	$1.00
SWANLEY WHITE. A pure, white, double violet. Intensely fragrant	.10	1.00
MARIE LOUISE. Large double, lavender blue flowers. The most intensely fragrant of all Violets	.10	1.00

VITADENA

TRILOBA. A very handsome plant for covering unsightly places or planting in parkways. Also valuable for hanging baskets, window boxes, etc., as the plant is more or less trailing in habit. It is covered with small, white, daisy like flowers at all times. There is an attractiveness about this plant which will appeal to everyone. Strong plants in pots	$0.15	$1.50



Germain's List of Choice Flowering Shrubs, Hedge Plants, Trees, Etc.

ABELIA

Each

RUPESTRIS. A handsome shrub with sweet-scented pink flowers. This plant is a native of China, especially adapted to California. The blossoms are borne throughout the major portion of the year. Strong plants..... $1.00

ACACIAS

These do well throughout all the warmer sections of California. Owing to their drought-resisting qualities and their free-blooming nature, they are always in large demand and universally admired. The following are a few of the best:

Each

MELANOXYLON. A well known black Acacia, now so much used for side-walk planting. Fine, strong plants..... .75

PODALYRAEFOLIA. A scarce and comparatively recently introduced variety. Foliage grayish white. It is loaded with golden yellow blossoms during mid-winter. Extra choice..... 1.00

PRAVISSIMA. A very scarce, low growing species. Exceedingly handsome in shrubbery borders..... .75

CULTRIFORMIS. Gray green foliage and handsome yellow flowers. The foliage is quite distinct from any other Acacia in cultivation..... .75

MOLLISSIMA. A variety with fern-like foliage, literally loaded with flowers during mid-winter and early spring. Splendid for cutting..... .75

ASTILBE

DAVIDII. A grand hardy plant from China, of comparatively recent introduction. Feathery blooms of pure white flowers, over two feet long. The plants grow five to six feet high and make bushy, handsome specimens. Very scarce. Fine plants from the field..... $1.00

BERBERIS

DARWINII. One of the handsomest of all flowering shrubs, the plants being literally covered with rich orange-colored blossoms. The plants are densely branched and spreading. Ideal for shrubberies and low border plantings..... $1.00

ILLICIFOLIA. A Berberis which has foliage something similar to English Holly, usually more or less tinted or bronze foliage. A handsome, low growing shrub. Strong, balled plants..... 1.00

THUNBERGII. A deciduous species of Barberry largely used in the Eastern portion of the United States for shrubbery groupings, etc. In autumn it assumes the brilliant tints of copper and red, making it exceedingly bright and effective. Three feet high..... 1.00

CHINENSIS. A splendid variety of Barberry with yellow flowers. Strong, balled plants..... 1.00

BUDDELIA

VARIABILIS VEITCHII. A beautiful flowering shrub from China, bearing long spikes of exquisitely colored lilac flowers. These are produced on the ends of long shoots. When the plant is in full bloom it is a thing of striking beauty. Hardy in most sections. Extra fine plants..... $0.75

BUXUS (BOXWOOD)

Each Doz.

SEMPERVIRENS. The well-known Evergreen Boxwood, so often used for dwarf hedges, etc. Boxwoods may be trimmed into any desired shape and retain their bright appearance under all weather conditions. We have a splendid stock of these ready for lining out, which we can furnish at..... $0.20 $2.00

In addition to the small-sized plants noted above, we have a splendid stock of large ones trimmed to ball-shaped plants, pyramids, etc. Prices on application.

CALYCANTHUS

FLORIDUS. The well-known sweet shrub of the South, with fragrant chocolate-colored flowers. Strong plants, four feet high, in boxes..... Each $1.50

CALLISTEMON

These are often relatively referred to as the Australian Bottle Brush plants. The blossoms are formed around the stems and have the appearance of a bottle brush. The colors contained in the various species are unusually bright and attractive. These plants are especially adapted for dry plantings, but will not withstand much frost. We offer these in the following species:

SALIGNUS, SPECIOSUS, RIGIDUS, LANCEOLATUS, LINEARIS, COCCINEA and PHOENICIUS.

NOTE. The above varieties are all exceedingly handsome, and vary somewhat in their colors. The last-named variety is of a particularly handsome weeping habit. Strong plants from 5-inch pots..... Each $1.00

CHOISYA

TERNATA. An elegant shrub with bright and glossy foliage and handsome clusters of white flowers, not unlike orange blossoms. These are exceedingly fragrant. It is one of the best shrubs we know of for California gardens. Strong balled plants..... Each $1.00

CORNUS

CAPITATA. One of the handsomest of all the Dogwoods; hardy in all sections. Blossoms profusely during early Spring. Flowers about three inches across. Strong plants, balled, three to four feet high..... Each $1.50
From 5-inch pots..... .75

CORONILLA

GLAUCA. A splendid shrub with handsome gray-green foliage. Flowers yellow and when in bloom covering the plant. Strong plants from pots..... Each $0.75

CASUARINA

CASUARINA. The various Casuarinas are relatively referred to as the Beefwood trees of Australia and are quite common in Southern California gardens. It is a tree which does not require much water, grows with great rapidity, and owing to its fine foliage, offers splendid decorative effect. As a sidewalk tree or for dry, side-hill planting, this Tree is invaluable. We have three different varieties: Equisetifolia, Stricta and the variety Glauca. Strong plants, six to seven feet high..... Each $1.00

COPROSMA

COPROSMA. A splendid shrub of prostrate habit and brilliant, glossy green leaves. This is an ideal plant for banking against the bases of buildings, etc., or for covering banks. It is one of the handsomest of all foliage shrubs. Strong, young plants..... Each $0.50
Heavy, balled field plants..... 2.50

COTONEASTER

ANGUSTIFOLIA. An elegant variety with small, narrow foliage. Erect habit of growth, covered during winter with bright orange-colored berries, which are borne so profusely as to cover the stems. Strong, balled plants from the field..... Each $1.50
Plants in 5-inch pots, four feet high, for growing on.... .75

BUXIFOLIA and MICROPHYLLA. Two handsome dwarf species quite hardy and exceedingly ornamental in character. Ideal as cover plants for steep slopes and the foreground of shrubbery borders, etc. Strong plants..... 1.00

FRANCHETTI. A recently introduced Cotoneaster bearing, during mid-winter, immense quantities of brilliant scarlet berries. The plant is more or less drooping in habit. A splendid plant for the great South-West. Strong, balled plants..... 1.50

CRATAEGUS

YUNNANENSIS. This new "Burning Bush" from Yunnan, China, is closely allied to the Barberries. The foliage is evergreen, rich dark green in color, and during the Autumn, Winter and Spring months the plants are literally covered with bright scarlet berries. The berries are even brighter in color than the common Holly berries native to the mountains of all portions of the Western United States. This beautiful new shrub can be used in groups on a lawn or as a hedge plant. It is absolutely hardy, withstanding all conditions of heat or cold. Extra strong plants, 2 to 3 feet high..... Each $1.00

PYRACANTHA. One of the handsomest of the entire family. Flowers white, succeeded with dense masses of brilliant orange-colored berries. As an ornamental berried shrub, this splendid species is indispensable. It should be in every garden. The branches, cut with berries attached, are splendid for indoor decorations.
Field grown specimens..... Each 1.50

DIOSMA

ERICOIDES. Often referred to as **Breath of Heaven.** Foliage exceedingly fine. Blossoms pure white, minute in character, but borne in great profusion. A shrub which should be in every garden. Strong, balled plants..... Each .75

ERICA (HEATHER)

Under this head we offer you a selection of the best Heathers for general planting. All of the species are covered with minute flowers of various colors. They not only form graceful objects in the garden, but are of exceeding beauty when grown in pots, or used for cut flower purposes. The following are amongst the best:

Each

ARBOREA. A strong growing, tree-like species covered with masses of minute white flowers. Strong plants four feet high, balled $2.50
Smaller sizes 1.50

CODONOIDES VEITCHII. Undoubtedly one of the finest of all white Heathers. Beautiful as a pot plant; splendid for cutting. Ideal mixed with other flowers in cut flower work. Strong plants in 9-inch pots, four to five feet high, bushy 2.00

MELANTHERA. This is the great commercial Erica or Heather. It is grown by the thousands by florists, either as pot plants for interior decoration, or in the open ground for cut purposes. There is a daintiness about this Erica which exceeds any other variety which we know. It blossoms during mid-winter, at a time when flowers are generally scarce. It is a gem, any way you take it, and should be in every garden. Strong plants in pots ... 1.50

ERYTHRINA

Each

CRISTA GALLI. One of the most striking of all Summer-flowering shrubs. It produces very large coral red blossoms, pea-shaped in form, with a foil of large, handsome foliage. Strong plants, pot grown $1.00

ESCALLONIA

The bright, glossy green foliage of most of the Escallonias and their wonderful freedom of growth, places them in the front range of various medium-sized shrubs. They blossom with great freedom and are extremely decorative in their nature. The following are four of the best:

Each

ALBA. A beautiful pure white variety.

MONTEVIDIENSIS. Enormous spikes of pure white flowers. A wonderfully effective shrub.
Price of any of the foregoing $1.50

EUONYMUS

Hardy, evergreen shrubs, native of Japan. Splendid for hedges or for growing as individual specimens in the garden. We offer three of the best.

Each

GOLDEN. Foliage dark green, with golden variegations. Strong, bushy plants $1.00

JAPONICA AUREA. One of the best gold and green varieties. 1.00

Each Doz.

MYRTIFOLIA. With small foliage, similar to a Box-wood. Splendid for hedges. Young plants from 2-inch pots $0.15 $1.50
Per Hundred, $8.00

FICUS (RUBBER TREE)

Per Foot

ELASTICA. One of the most decorative of all the so-called Rubber trees. Immense, dark, glossy green leaves. We have a fine stock in all sizes $1.00

Each

MACROPHYLLA. Quite distinct from Elastica, with dark, glossy green leaves, which are very broad. The central stem and mid-rib is reddish in color. Strong plants 1.50

GENISTA

Each

CANARIENSIS. A splendid Spring-flowering Shrub, covered with myriads of small, golden yellow, pea-shaped blossoms. Often grown as a pot plant for Easter decorations. Does well in any garden. Strong plants in 4-inch pots ... .75

HISPANICA. Relatively referred to as Scotch Broom. Covered during early Spring with large, golden yellow, pea-shaped flowers. Strong plants from pots ..... .75

GINKGO

GINKGO. Often spoken of as the Maidenhair Tree. A beautiful, hardy tree from North China, with handsomely notched, fan-shaped leaves. This plant will stand many degrees of cold. Splendid, established specimens ..... Each $2.50
Larger sizes ..... Prices on application.

HABROTHAMNUS

COCCINEA. A splendid shrub for all purposes. It can either be used as a lawn specimen or in a shrubbery planting. It bears large clusters of rosy crimson flowers. Strong young plants in pots $0.75

HIBISCUS

TWO SUPERB SINGLE HIBISCUS. Nearly every one is acquainted with the single Scarlet Hibiscus or the double Crimson and double Pink, but here we have two beautiful new single forms. They are distinct in color and profuse in bloom.

ORANGE YELLOW. A distinct shade of orange with a deep crimson center or eye.

BUFF YELLOW. A splendid shade of deep buff yellow, with a maroon colored eye.
Strong plants from 4-inch pots $0.60

SPECIAL OFFER—One of each for $1.00

HIBISCUS. The value of the Hibiscus as a garden plant is well understood. They will not stand much frost, but should be planted in a warm sunny location. We offer you two of the best varieties—Double Crimson and Peachblow. Strong balled plants from the field, three-quarters of a foot high $1.50

HYPERICUM

A splendid group of shrubs for general planting. While the general character of growth in the various species is distinct, they nearly all bear yellow flowers. Some are dwarf, others tall. All are good and nearly all are hardy.

Each

ELATUM. A small flowered species with large corymbs of golden yellow flowers. Attains a height of six feet $0.50

MOSERIANUM. A comparatively dwarf variety with bright golden yellow flowers two to three inches across. A fine thing for the foreground of a shrubbery planting ..... .50

PATULUM VAR. HENRYI. A superb new species from Thibet. Large golden yellow flowers with conspicuous bunches of yellow stamens ..... .75

VARIEGATUM. The leaves of this variety are prettily striped red and white. The plant is quite dwarf, attaining a height of two feet. Flowers bright yellow ..... .50

JACARANDA

MIMOSAEFOLIA. The beauty of Jacarandas is well known. It produces masses of rich dark blue flowers and beautiful fern-like foliage. Extra fine plants, pot grown $0.75

LAURUS

TINUS. One of the best of all hedge plants, or it may be used as a single specimen. Can be trimmed to any desired shape. Strong young plants ..... Each $0.25
Extra large specimens ..... Prices on application

LAGERSTROMIA (CREPE MYRTLE)

INDICA. One of the handsomest of all deciduous flowering trees. Flowers are borne in large racemes at the tips of the new growths during the early Summer. The color is a delightful shade of bright pink. When the trees are in bloom they are simply a mass of color. Strong plants from the field, which can be shipped dormant during January, February and March ..... Each $1.00

CRIMSON (Crimson Crepe Myrtle). Similar to the foregoing but with deep rosy crimson flowers 1.00

LAGUNARIA

PATTERSONI. A beautiful tree with Abutilon-like flowers of a delicate pink shade. The leaves are silvery on the under side and dark green on top. A highly ornamental, rapid growing tree. Extra fine plants in pots $0.75

LEPTOSPERMUM

LAEVIGATUM. One of the handsomest of all weeping shrubs. A native of Australia, suitable for lawn planting. Densely covered with minute flowers during early Spring. Handsome gray green foliage.
Balled specimens from the field 1.50

LILACS

Lilacs are well known and universally admired. They stand extreme conditions and with the return of each Spring produce a mass of flowers. We offer four of the best varieties.

CHARLES, THE TENTH. Reddish purple.
MARIE LE GRAY. Pure white, single.
PRESIDENT GREVY. Purplish blue, double.
MAD. CASSIMER. Dark purple.

Strong plants in six-inch pots of any of the above varieties ..... Each $0.75

LINUM

FLAVUM. A handsome species of Perennial Flax. Large golden yellow blossoms borne in Mid-winter, averaging some two to three inches across. Each $0.50 Doz. $5.00

MAGNOLIA

GRANDIFLORA. The well known Magnolia of the South, bearing extra large snowy white blossoms. Strong plants in pots $1.00

EUGENIA MYRTIFOLIA

EUGENIA MYRTIFOLIA. A splendid, bushy, low growing tree closely related to the Myrtle. Very handsome. Suitable only for warm sections. Strong balled plants from the field ..... Each $1.00

LONICERA

NITIDA. A new evergreen shrub from China with handsome small round foliage and pendulous habit of growth. This new shrub makes an ideal hedge plant aside from its beauty when grown as an individual specimen. Strong plants in pots $0.50

PRUNUS (LAURUS)

English Laurel

ENGLISH LAUREL. The well known English Laurel and unquestionably one of the handsomest of all varieties of shrubs. The leaves are a glossy dark green. Quite hardy. Does best in a shady location. Each
Strong plants from the field 1.50

MAHONIA

AQUIFOLIA. Relatively referred to as the Oregon Grape. A splendid dwarf shrub with long, prickly glossy green foliage and clusters of small yellow flowers in early Spring. This is a very hardy shrub. Also makes a splendid tub plant for porch ornamentation, etc. Small plants in pots. $0.50
Strong balled plants from the field 1.50

MYRTUS

COMMUNIS (Common English Myrtle). A splendid dwarf evergreen plant suitable for borders or hedges, also of equal value if allowed to grow into individual specimens. Bears masses of fragrant pure white flowers. Each — Doz.
Strong field plants ..... 1.50 .....

COMMUNIS MICROPHYLLA. Identical with the preceding, but with much smaller leaves.
Strong field plants ..... 1.50 .....

NIREMBERGIA

ATROPURPUREA. A but little known shrub with handsome rich blue flowers and delicate feathery foliage. It blooms almost throughout the season, and is fairly hardy. A plant in bloom attracts attention at once. We recommend this beautiful shrub to every one. Strong plants in pots ..... Each $0.50

NANDINA

DOMESTICA. This shrub from Japan makes one of the most beautiful of all lawn specimens, or it may be treated as a potted plant for indoor ornamentation. The leaves take on rich Autumn colors in the Fall of red, copper and brown at which time it is exceedingly attractive. Extra fine plants balled from the field 1.50

OLEANDERS

OLEANDERS. These make beautiful specimens in a short time and are practically ever-blooming. They will stand several degrees of frost without injury. Of splendid value for such locations as Arizona, Texas, and generally speaking, the Southwest, where the temperatures do not go too low. We can offer them to you in the following colors: White, Salmon, Pink and Scarlet. Strong plants from pots $0.75
Extra large balled specimens from the field 1.50

PITTOSPORUM

The bright glossy green foliage of the various Pittosporums, coupled with their delicately fragrant blossoms, places them in the front rank of medium high garden shrubs. We offer four of the very best.

Each

UNDULATUM. Handsome undulated foliage; light green in color. Flowers delightfully scented. Strong plants..$1 to $1.50

CRASSIFOLIUM. An erect growing species with thick leathery foliage. Very handsome as a specimen plant ..... "

NIGRA. Glossy light green foliage with black stems ..... "

TOBIRA. Dark green, glossy foliage ..... "

Note.—We can supply large balled specimens of all the above varieties from the field or established in large receptacles. Prices on application.

PLATANUS

ORIENTALIS. The hardy Eastern Sycamore. A tree of rapid growth and one of the most satisfactory side walk or shade trees grown. Does well in a lawn or any place where moisture is available. Strong, straight trees, 6 to 7 feet high ..... Each $1.00
Extra large specimens up to 2.50

POINSETTIA

PULCHERRIMA (Single Scarlet). This plant is well known and universally admired for its handsome scarlet bracts. We have this plant in all sizes. They should be set out in the open ground when danger of frost is over. Strong plants $0.50
Extra large specimens 1.50

POMEGRANATE

ORNAMENTAL FLOWERING

The following garden forms of the common Pomegranate produce large double blooms and are exceedingly ornamental. They are deciduous in nature, losing their foliage during Winter.

ANDRE LEROY. Immense orange-colored flowers. Each
Strong field grown plants, bushy $1.00

PRIVET

LIGUSTRUM JAPONICA. An ideal hedge plant with oval-shaped leaves covered in Spring with numerous spikes of fragrant white flowers. Grown in boxes, one hundred plants to the box. Young plants for lining out ..... Each $0.15 — Doz. $1.50
Per 100, $12.00

ARIEGATA. A handsome small leaved variegated Privet of green and gold. Quite hardy, exceedingly ornamental. Strong plants in six-inch pots ..... Each $1.00

PRUNUS

ILLICIFOLIA (Holly Leaved). The evergreen wild plum, native of our mountain sections. A highly ornamental evergreen, equal to Holly in appearance. Splendid for hedges or for growing as individual specimens. Strong plants in five-inch pots $0.25

ILLICIFOLIA var. INTEGRIFOLIA. The type found growing on the islands off the coast of Southern California. Grows principally in Catalina. Remarkable for its large glossy green foliage. Exceedingly handsome.
Strong plants ..... .50
Specimen sizes up to $1.50 and 2.50

PISSARDI. One of the handsomest of all ornamental foliage trees. During the Winter season it presents a deep coppery bronze color. Extra fine specimens 1.50

CAROLINUS. The well known Carolina Cherry. Quite distinct from any of the Catalina species. A rapid growing shrub, evergreen in character. Should be in every shrubbery plantation. Strong plants in five-inch pots $0.50

QUERCUS (OAK)

AGRIFOLIA. The native California Live Oak. A quick growing species. Ideal as a plant for dry hillsides, parkings, etc. Fine plants in 5-inch pots ..... Each .75
Extra large sizes 1.00

SUBER. The well-known Cork Oak of Spain and Southern Europe. A rapid growing Evergreen. One of the finest of the species. Strong, young plants, three to four feet high $1.00
Extra large, field-grown stock, 6 to 7 feet high....3.50 to $10.00

SERISSA

FOETIDA. A dainty shrub with particularly handsome foliage. Bears numerous clusters of small white flowers. Splendid for the shrubbery borders. Each
Extra strong, balled plants, two to three feet high 1.00

STERCULIA

DIVERSIFOLIA. One of the best of all shade trees for Southern California. Has bright green foliage. Extra strong specimens, five to six feet high, delivered in dormant or bare root condition ..... Each $1.00 to $2.50

SCHINUS

MOLLE. One of the best of all trees for street planting. Universally grown and admired throughout California. Five to six feet high ..... Each .75

SWAINSONA

SWAINSONA. This dainty shrub bears quantities of small, pea-shaped flowers. Aside from its value as a garden shrub, the blossoms are well adapted for cutting purposes. Fine, strong plants ..... Each $0.50 — Doz. $5.00

VERONICAS

Veronicas may well be considered as amongst the daintiest of all dwarf shrubs. They are especially adapted for front borders. They do particularly well near the sea coast. The following are amongst the best:

ALBA. Long, narrow foliage, compact growth, flowers pure white.

ANDERSONI. Handsome light olive leaves, flowers pale blue.

IMPERIALIS. One of the best. Exceedingly vigorous grower, spikes of carmine crimson flowers.

LOBELOIDES. Large spikes of pale blue flowers.

MICROPHYLLA. Handsome, small foliaged variety, covered with innumerable spikes of pure white flowers.

VARIEGATA. One of the best of variegated shrubs. Leaves are margined with white. Flowers a beautiful shade of blue. Each
Large specimens, balled, from the field 1.00

WEIGELIAS

Hardy deciduous shrubs producing masses of chocolate-colored flowers during early spring. The following are hree of the best:

HORTENSIS NIVEA. A beautiful white, tinted pink, variety.

EVA RATHKE. A perpetual blooming variety, with deep carmine flowers.

CANDIDA. An extra large, pure white. Each
Price, strong, two-year-old plants of any of the above... $1.00

Germain's Selection of Choice Conifers

ARAUCARIA

BIDWILLI. The **Bunya Pine.** By all odds one of the handsomest of all coniferous plants. Foliage dark, glossy green. Branches arranged in regular tiers. Strong, balled plants from four to eight feet high..each **$5.00** to **$15.00**

CEDRUS

Each

DEODARA. In our opinion one of the most magnificent of all forest trees n existence. The whole plant has a grayish green cast. Suitable for lawn planting or for reforestration purposes. Strong plants, two to three feet high. **$3.00**
Three to four feet..... **3.50**
Four to five feet..... **5.00**
Five to six feet..... **6.00**

CRYPTOMERIA

Each

ELEGANS. A dainty coniferous plant, a native of Japan. In autumn the foliage takes on a bronzy crimson color. Strong, young plants..... **$0.75**

CUPRESSUS (CYPRESS)

Each

ITALIAN. This well-known Cypress is largely used in formal gardens, etc. The plants are columnar in their habit of growth. Fine specimens, five to six feet high..... **2.50**

MACROCARPA. This is the native Cypress found in the district around Monterey. A splendid variety for seacoast planting, invaluable for parkways, etc. Strong plants in flats.....Per 100 **$5.00**
Each
3-inch pot plants, one to two feet high..... **.35**

LIBROCEDRUS

Each

DECURRENS. This grand, so-called Red Cedar should be largely planted. It is undoubtedly one of the stateliest of all our native species. Especially adapted to dry land plantings. Strong, young plants, two to three feet high. **$2.50**
Three to four feet high..... **3.50**
Four to five feet high..... **5.00**

PINUS

HALAPENSIS. This handsome Mediterranean pine tree is especially adapted to planting in California. It forms a dense growth, withstands drought to a marked degree. Owing to its value we have grown a very large stock of this variety. Strong, balled plants from the field, four to five feet high..... **2.50**
Larger sizes, prices on application.

INSIGNIS. The well-known Monterey Pine. A rapid-growing variety with handsome, dark green needles. Strong specimens, four to five feet high..... **$1.00**

SEQUOIA

GIGANTEA. The famous giant Redwood of our California forests, remarkable for its tremendous height. Extra fine specimens, four to five feet high..... **7.50**

SEMPERVIRENS. California Evergreen Redwood. A variety of exceedingly rapid growth and graceful in general character. Does best near the coastal regions. Extra fine plants, four to five feet high, balled from the open ground..... **3.50**

THUYA

ORIENTALIS. A compact type of Arborvitae which attains a heigh of some fifteen to twenty feet. Strictly evergreen and quite hardy. Fine plants, two to three feet high... **2.00**

UMBRELLA TREE

UMBRELLA TREE. The Texas Umbrella Tree forms a symmetrical, round head and bears pretty green cut fern-like foliage. It has become very popular in arid and semi-arid sections where other varieties do not thrive. We have a few trees at $1.50

Germain's Selection of Choice Ferns

ADIANTUM

Each Doz.

CAPILLUS VENERIS. A hardy California Maiden-Hair. Strong, young plants..... **$0.50** **$5.00**

CUNEATUM. The true Maiden-Hair Fern. One of the best for conservatory decoration. Strong, young plants..... **.50** .....
Specimen sizes, according to size.....**$1.00** and **1.50** .....

ANTHRIUM

Each

FELIX FOEMINA. A dainty, hardy Fern. Attains a height of some three to four feet. Especially useful in large ferneries..... **$0.50**

ASPLENIUM

Each

NIDUS AVIS. The Bird's Nest Fern from the Hawaiian Islands. Broad, handsome palmate foliage. One of the handsomest of all house ferns. Strong plants ..**$1.00** to **$3.50**

BOSTON FERN

NEPHROLEPIS

Each

BOSTONIENSIS. The well known Boston Fern. Unquestionably one of the best of all for interior decoration. Strong plants from 5-inch pots..... **$1.00**
From 6-inch pots..... **1.50**
Specimen plants, according to size, up to..... **3.50**

Each Doz.

EXALTATA. The old-fashioned Sword Fern, suitable for shady rockeries, ferneries, etc. Quite hardy and exceedingly handsome. Specimen plants.....**$0.75** .....
Small sizes for planting out..... **.20** **$2.00**

Each

PIERSONI. The well-known Ostrich Plume Fern. A sport from the Boston, with the pinnae again sub-divided, each having the appearance of a miniature leaf. Strong plants from 5-inch pots..... **$1.00**
Specimen sizes, according to size.....**$1.00** to **3.50**

Germain's Choice Palms

COCOS

Each

PLUMOSUS. A tall, slender growing palm from Brazil, the leaves are beautifully arched. A well-developed plant, reminds one of a giant ostrich plume. One of the most graceful palms for Southern California. May also be grown in pots for interior decoration. Strong, young plants, eighteen inches to two feet high..... **$1.25**
Four to five-foot specimens with well-developed character foliage..... **2.50**
In addition to the above we have a stock of larger sizes, prices on application.

AUSTRALIS. One of the hardiest of all the various types of Cocos Palms. Foliage is beautifully reflexed, blue green in color and very hardy. Splendid for planting in lawns, or for use in tubs. Fine specimens, two to three feet high, bushy..... **$3.00**
Large specimens, four to five feet high..... **7.50**

CHAMAEROPS

EXCELSA. A hardy, compact growing Palm, handsome, rich green, fan-shaped leaves. Especially adapted for sidewalk plantings, or for groupings on lawns, etc. Strong plants, two to three feet high..... **$2.00**
Four to five feet high..... **5.00**

KENTIA

The two varieties classed under this head are undoubtedly the best for all indoor, house Palms; they thrive and grow for years in any ordinary living room, and will stand the naturally dry and harsh conditions characteristic to the interior of a building, with little more attention than judicious watering and an occasional repotting. The following are two of the best: Each

BALMOREANA and FOSTERIANA. We can offer fine, strong plants of either variety, as follows: 4-inch pot plants... **$1.50**
Specimens three to four feet..... **3.50**
Extra large plants, five to six feet high..... **7.50**

NOTE. We have a large collection of these of many other sizes and will be glad to quote prices on application.

PHOENIX

CANARIENSIS. The well-known, so-called Date Palm, so largely grown in Southern California. Splendid as a porch plant and equally valuable for planting outside. Strong plants, two to three feet high..... **$1.50**
Extra large specimens, four to five feet high..... **3.50**

Indoor Decorative Plants

Contained under this head are a few of the better varieties suitable for pots, jardinieres, hanging baskets, etc.

ANTHERICUM

Each

VARIEGATUM. A dainty and easily grown decorative plant with narrow foliage, prettily striped green and yellow. Ideal for hanging baskets or for growing in pots. Strong plants in 5-inch pots..... **$0.50**

ASPARAGUS

PLUMOSUS NANUS. This handsome Asparagus is equal to the finest Ferns in point of beauty and more easily grown. Especially valuable for growing in pots for interior decoration. Strong plants in 5-inch pots..... **$0.75**
Larger sizes from.....**$1.00** to **1.50**

SCANDENS DEFLEXUS. This beautiful Asparagus is undoubtedly one of the best of all basket plants. Foliage is light green. The growth is pendulous, often reaching a length of from four to five feet, in well-grown specimens. Strong pot grown plants..... **.50**

SPRENGERI. A very hardy variety of Asparagus, suitable either for pots or hanging baskets. Will grow in either full sun or partial shade. This variety is fast growing and requires plenty of feeding. Strong plants in pots..... **1.00**

ASPIDISTRA

LURIDA. An ideal house plant with rich, dark green foliage. For lasting qualities this may be regarded as one of the best of all house plants. The foliage is from three to five inches broad, with a length of from two to three feet. Will stand a dense shade in which few other plants will grow. We have a splendid stock of these in assorted sizes. Strong plants from 6-inch pots..... **$2.50**
10-inch pans..... **5.00**

BEAUCARNEA

RECURVATA. A very rare decorative plant from Mexico. The foliage is long, narrow and gracefully arched. The peculiarity of this plant is the large round tuberous growth which forms at the base of the stem. The recurving foliage attains a length of from three to four feet, in well-developed specimens. We recommend this plant highly to all of our customers who desire something which will last them for an indefinite period. Fine, strong plants, eighteen inches to two feet high..... **$3.50**

DRACAENA

INDIVISA. A graceful, hardy sub-tropical plant, with a slender central stem and long, linear recurved foliage. This plant makes a splendid specimen for lawn work; is also splendid for sidewalk planting. Strong, young plants..... **$0.75**
Specimen sizes, according to size.....**$1.00** to **1.50**

Citrus Fruit Trees

California is justly famous the world over for her fruits. The ideal climate, soil and long growing season, give us the best, strongest, healthiest and most perfect young trees that grow. More especially does this apply to citrus fruit trees of all kinds. Germains' reputation as a house of quality, first, last and all the time is your strongest guarantee that your orders will be filled with only the best grade of stock.

ORANGES

KUMQUAT (The Kin-Kan of Japan), meaning Gold Orange. Fruit very small, olive-shaped, the rind is orange yellow and has a pleasant aroma; used by the orientals for preserving. The tree is dwarf and ornamental. May to July; $3.50 each.

TANGERINE (Dancy's). The standard variety, ripens at the same time as the navels; pulp is sweet and separates freely from the rind. Best of the Mandarin family. March; $3.50 each.

VALENCIA LATE. A late and prolific bearer, fruit medium size, oval, solid and heavy; flesh exceedingly juicy and sweet. The other of the two most profitable and world famous oranges. Fruit medium size, very few seeds, sub-acid flavor; ripens late and keeps well on the tree throughout the summer. Season from June to September. The best late orange: $3.00 each.

WASHINGTON NAVEL. One of the two most profitable oranges grown. World famous. Derives its name from the formation on the blossom end. A regular bearer of large, luscious fruit of the most delicious flavor. Fine shipper, ripens early. Season from November to May. The best early orange; $3.00 each.

LEMONS

EUREKA. The celebrated California Lemon and the favorite shipping commercial variety. Undoubtedly the best of all Lemons. Medium size fruit, having few seeds; heavy, juicy and well flavored. A good keeper, tree thornless and a most prolific bearer. The variety most largely grown in California. $3.00 each.

LIMES

BEARSS SEEDLESS LIME. The best lime grown. Large, being about the size of ordinary lemons. More juicy and thinner skin than any Mexican variety. Perfectly seedless. We hold a fine stock of good straight two year old trees, at $3.50 each.

POMELO OR GRAPE FRUIT

MARSH'S SEEDLESS. The best and most popular variety of the Pomelo. Seedless and sweet; can be eaten without sugar when fully matured. Medium size, rind thin, flesh dark and rich; an early and prolific bearer and a late keeper. $3.00 each.

VEGETABLE PLANTS AND ROOTS

We beg to call your attention to the fact that in dozen and lots of 100, the prices below are parcel post or express prepaid. In lots of 1000 the price quoted is F. O. B., Los Angeles. Owing to the fact that our vegetable plant stock is grown at a different nursery from other plants, we are compelled to make shipment of vegetable plants separately.

The plants mentioned below are usually sent out packed carefully in moss. If desired, sent in a flat, please add fifty cents for each flat.

	Prices Prepaid Doz.	Per 100	Prices F. O. B., L. A. Per 1000	Weight Per 1000
ARTICHOKE, Green Globe	$1.50	$12.00		50 lbs.
ARTICHOKE, Jerusalem, roots	per pound 15 cents.	Write for quantity prices.		
ASPARAGUS, Giant Argenteuil	.35	2.50	12.00	50 lbs.
ASPARAGUS, Conover's Colossal	.35	2.50	12.00	50 lbs.
ASPARAGUS, Palmetto	.35	2.50	12.00	50 lbs.
CABBAGE, Early Winningstadt	.20	.75	4.00	50 lbs.
CABBAGE, Cannon Ball	.20	.75	4.00	50 lbs.
CABBAGE, Flat Dutch	.20	.75	4.00	50 lbs.
CAULIFLOWER, Snowball	.20	1.00	4.00	50 lbs.
CELERY, Golden Self Bleeching	.25	2.00	10.00	50 lbs.
CELERY, White Plume	.25	2.00	10.00	50 lbs.
CHIVES,	10 cents per bunch	1.00		
EGG PLANT, New York	.75	4.00	30.00	100 lbs.
HORSE RADISH	.25	1.50	10.00	25 lbs.
PEPPERS, Anaheim Chili	.30	2.00	15.00	20 lbs.
PEPPERS, Chinese Giant	.30	2.00	15.00	20 lbs.
PEPPERS, Pimento	.30	2.00	15.00	20 lbs.
RHUBARB	1.50	10.00	.....	.....
SWEET POTATO	.25	1.25	5.00	20 lbs.
TOMATO, Beefsteak	.30	1.50	10.00	20 lbs.
TOMATO, Earliana	.30	1.50	10.00	20 lbs.
TOMATO, New Stone	.30	1.50	10.00	20 lbs.

FERTILIZERS

During the past year we have installed a complete fertilizer machinery plant, for mixing and grinding the raw materials. We are in a position to make up any mixture necessary for all purposes such as orange trees, truck gardens, deciduous fruits, berries, etc. You will find our prices equal to the lowest consistent with the quality of the goods offered. Write us for fertilizing information and for prices on any quantity. We can furnish carload quantities on reasonably short notice.

NUVIDA LAWN AND GARDEN FERTILIZER

The verdict of all who have used the Nuvida Lawn and Garden Fertilizer is that it is the most complete and satisfactory Lawn Dressing ever placed on the market. It is manufactured by us and we guarantee that it contains all the elements required and in the proper proportions to produce a luxuriant growth. It is a clean, odorless material and can be applied without offending one's sense of smell or sight. Being quick in action the effect can be noticed within a very short time by the rich green coloring and that velvety appearance so much sought after. After applying, the sprinkling of the hose brings it down to the roots of the grass, stimulating them to greater activity, and producing a thick sward and a firm growth which remains so throughout the season. Its superiority over stable manure can scarcely be estimated, as the latter, in addition to disfiguring the lawn by its unsightly appearance, also gives out an unpleasant odor, and always contains weeds and other undesirable seeds. Great care should be taken to distribute the Fertilizer evenly and in no greater quantities than recommended. It can be applied at any time during the year, but never while the grass is wet. This material is equally suitable for flower beds, or the home truck garden.

Trial bag for 300 square feet, 10 lbs.	$0.60
25 pound sack for 750 square feet	1.25
50 pound sack for 1500 square feet	2.25
100 pound sack for 3000 square feet	4.25

WRITE FOR NUVIDA PAMPHLET

NUVIDA FLOWER AND FERN FERTILIZER

The Germain Seed & Plant Co. have endeavored for years to obtain a fertilizer which would meet all the requirements necessary for flower culture. We owe it to our large patronage to recommend only that which will give results and satisfaction. To that end we have finally perfected a fertilizer which we think will satisfy all requirements. It is of a concentrated nature, requiring but very small doses to the plant and will undoubtedly yield good results. The material is known as the NUVIDA FLOWER AND FERN FERTILIZER and we confidently feel assured of its success, because of its purity, its food value, and its proportions of fertilizer elements. Nuvida Flower and Fern Fertilizer, 35 cents per can.

NUVIDA VEGETABLE FERTILIZER

This material is a concentrated complete fertilizer especially designed to meet the needs of the truck gardener. It contains the proper elements in the right proportions to obtain the best possible growth. 100 pounds $4.00.

Ask for prices in larger quantities.

BLOOD MEAL

Pure Dried Blood—This is a highly nitrogenous fertilizer rich in plant food and an excellent material for increasing growth and a profusion of flowers and fruit. 100 pounds $10.00; 50 pounds $5.50; 25 pounds $3.00; 2 pounds .25.

BONE MEAL

Bone Meal. White steamed, a finely ground material of high quality, useful for all crops, but especially for grass lands, fruit trees, and flower beds.

5 pounds	$0.35	50 pounds	$2.40
25 pounds	1.25	100 pounds	4.50

BLOOD AND BONE FERTILIZER

A combination of blood and bone materials, very popular for garden purposes. Contains lesser amounts of nitrogen and phosphoric acid than the Nuvida. Per 100 lbs., $3.25.

FISH MEAL

A highly concentrated material composed of dried fish scrap. It is highly recommended by many gardeners as being ideal for lawn and garden growth. It is practically all available plant food and lasts a long time. 100 lbs. $7.00; 50 lbs. $3.75; 25 lbs. $2.00; 5 lbs. $0.50.

GYPSUM

Gypsum. A very high grade material, useful for correcting black alkali, loosening the heaviness of adobe and other heavy soils; $1.50 per 100 pounds, $25.00 per ton. Ask for prices in carlots.

LIME CARBONATE

Lime Carbonate. This is a material admirably adapted for use on the soil to neutralize sourness and also to add fertility. It is finely ground, easily applied and immediately effective. Will keep indefinitely when stored in a dry place. Can be applied with shovel or spreader and no time lost in slaking and sifting ordinary lime. Sold only in 100 pound sacks.

80 pound sacks ..... $ 1.25

LEAF MOLD

Leaf Mold. Fine for mixing in soil for potting house plants, ferns, etc. Per sack $1.25.

NITRATE OF SODA

Nitrate of Soda. A fertilizer very quick in action and used for the nitrogen it contains. It creates rapid growth, is odorless very quickly and entirely soluble. It should be applied only when the plants are above ground, usually in combination with other chemical fertilizers; 100 pounds $6.00.

PLANT FOOD TABLETS

Sterling Plant Food Tablets contain nitrogen, ammonia, phosphoric acid and potash. This is a new scientific odorless concentrated fertilizer for potted plants. Takes the place of liquid manure. It starts the plants at once into a healthy and vigorous growth and makes them grow and bloom luxuriantly. They also kill worms and insects in the soil. Trial box 15 cents, mailed free. Large box 25 cents, mailed free.

SHEEP FERTILIZER

Pulverized Sheep Manure. We recommend the Nuvida Brand of Sheep Manure for all purposes where a high grade organic fertilizer is required. It is pure and unadulterated and gathered from the great sheep corrals of the western plains. It is excellent for flower beds, lawns and can be used with splendid success on golf courses, and grass tennis courts. Used at the rate of about 100 pounds to 1500 square feet.

100 pounds	$2.50
50 pounds	1.35
25 pounds	.75

Five cents per pound in small quantities.

SULPHATE OF AMMONIA

Sulphate of Ammonia. A highly concentrated material, in fact containing the highest nitrogen content of any fertilizer. Quickly soluble and very highly recommended as the best inorganic fertilizer on the market; 100 lbs. $8.50.

NUVIDA SUPERPHOSPHATE

Nuvida Superphosphate. We strongly urge alfalfa growers to use a good superphosphate and notice the wonderful results. Our material has been extensively used and has proven very satisfactory. Its unvarying quality and uniform condition has gained a reputation for it in the farming communities; $2.25 per 100 pounds. Ask for quotations in larger quantities.

POTASH

While not as important as other fertilizer ingredients, Potash is of value, particularly for potatoes and other root crops. We have a particularly high grade and can supply in any quantity.

100 pounds	$8.00
50 pounds	4.25
25 pounds	2.25
Per pound	.10

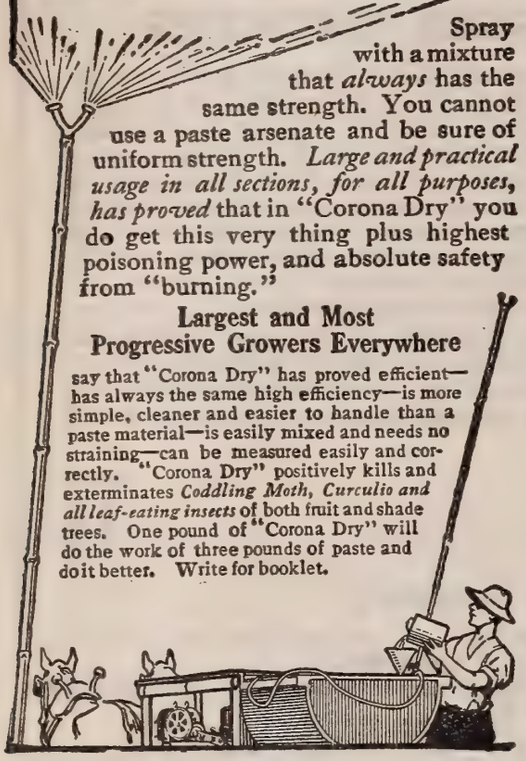
TANKAGE

Packing House Tankage is the meat refuse from packing house plants. It usually runs high in nitrogen and is an excellent organic fertilizer. On account of the varying grades we are unable to quote a firm price, but will gladly quote on any quantity and grade desired.

INSECTICIDES AND FUNGICIDES

"CORONA DRY"
Arsenate of Lead
Patented June 10th, 1913

Eliminates guesswork. Standardizes the strength of the spray mixture. Saves work in mixing—no straining needed.



Spray with a mixture that *always* has the same strength. You cannot use a paste arsenate and be sure of uniform strength. *Large and practical usage in all sections, for all purposes, has proved* that in "Corona Dry" you do get this very thing plus highest poisoning power, and absolute safety from "burning."

Largest and Most Progressive Growers Everywhere

say that "Corona Dry" has proved efficient—has always the same high efficiency—is more simple, cleaner and easier to handle than a paste material—is easily mixed and needs no straining—can be measured easily and correctly. "Corona Dry" positively kills and exterminates *Coddling Moth, Curculio and all leaf-eating insects* of both fruit and shade trees. One pound of "Corona Dry" will do the work of three pounds of paste and do it better. Write for booklet.

NOTE.—Only items marked "Can Be Mailed" are permitted to go by parcel post, others must go by express or freight.

"CORONA DRY" ARSENATE OF LEAD

We unhesitatingly recommend "Corona Dry" as being the best means of ridding trees and plants of all leaf-eating insects, such as codling moth, potato beetle, cabbage worms, etc. Its superiority as a successful dry powdered arsenate of lead is unquestioned, and for all uses it is far superior in all points to any paste arsenate of lead upon the market. It mixes easily, less freight to pay, economical, and always the same. One pound of "Corona Dry" will do the work of three pounds of paste and do it better. **Cannot be mailed.**

½ pound size	$0.40	25 pound size	$11.50
1 pound size	.70	50 pound size	21.00
5 pound size	3.25	100 pound size	41.00
10 pound size	6.00	200 pound size	80.00

GARDEN PESTS AND THEIR CONTROL

The suburban dweller, and the owner of the small country place have always been seriously handicapped in their efforts to combat insect pests, which so often injure or destroy the foliage and fruit of various plants.

Methods that have proven successful for the large market gardener, or fruit raiser, are not at all adapted to the small growers' needs. They all involve the use of large quantities of water for mixing purposes, expensive and cumbersome apparatus or machinery, and skilled labor. These things are out of the question for the home gardener and fruit raiser, and the result is that, while he has often treated his potatoes with paris green, his cucumbers with hellebore, and his small fruits with paste arsenate of lead, he has been forced to endure considerable loss and disappointment through the ravages of the thousands of destructive insect pests which infest growing crops from time to time. Corona Products solve your problems.

CORONA BORDEAUX MIXTURE

This year we offer the finest Bordeaux Mixture that has ever been placed on the market. It is manufactured by the Corona Chemical Company who have so successfully placed "Corona Dry" among the growers. It is a very fine powder that mixes perfectly with water and is the ideal spray for practically all plant diseases. It can be used also with great success against gum disease of citrus trees by simply adding sufficient water to make a paste. It is also the first successful dusting powder on the market. We unqualifiedly recommend this product as being the best possible. ½ pound size 35 cents; 1 pound size 45 cents. **Can be mailed.**

CORONA TOBACCO DUST.—A fine powder for dusting against plant lice. ½ pound 20 cents; 1 pound 30 cents; 5 pounds $1.25. **Can be mailed.**

CORONA DUSTING SULPHUR.—The finest grade of sulphur on the market. Far more effective than any other brand for dusting plants and trees, for mildew, red spider, etc. On account of its extreme fineness Corona Sulphur will go further than any other. ½ pound 15 cents; 1 pound 20 cents; 5 pound, 75 cents. **Can be mailed.**

GERMAIN'S SOLUBLE SULPHUR COMPOUND

The Sulphur Tree Spray of Today

SULPHUR has always been recognized as the important ingredient of spray value in the lime-sulphur sprays. The lime has been performing the office of a "necessary" evil: simply an agency for rendering the sulphur available.

In Soluble Sulphur the sulphur is rendered available by the use of a non-injurious element, thereby allowing the sulphur to perform its work in a fuller and more complete way.

IT IS A SULPHUR SPRAY, not an **EXPERIMENT.** The sulphur is in the same chemical form as is the sulphur in the lime-sulphur solution, but being freed from the lime (the lime being found really detrimental), possesses a higher power, by fourfold, as an insecticide and fungicide.

SOLUBLE SULPHUR is very penetrating—going through and through all scale and insect crusts; whereas the lime in the lime-sulphur solution solidifies and neutralizes the sulphur, forming a harmless crust or coating. Soluble Sulphur does not paste up the surface of the tree, preventing the normal function of bark and leaves, but cleans the surface from all such hindrance to tree growth.

Soluble Sulphur is formed by compounding sulphur with soda ash, a true solvent. The solution formed by the use of this material is a natural and perfect solution with a high percentage of the polysulphides.

Germain Soluble Sulphur is put up in iron drums, weighing, when filled, 106 pounds gross shipping weight; with contents, 100 pounds net. It is also packed in 10-pound and 1-pound cans.

A 100-pound drum of Soluble Sulphur is equal to a 600-pound barrel of lime-sulphur solution; effecting a saving of 500 pounds in shipping and handling weight.

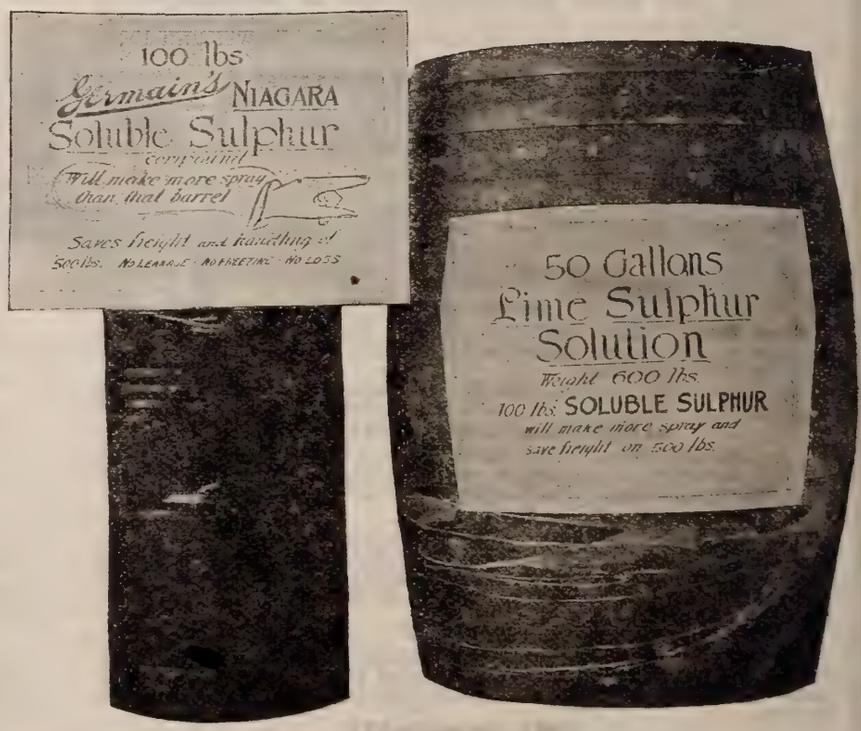
It is used as a liquid spray as an insecticide and fungicide the same as lime-sulphur for most all purposes.

As a measure of comparison with lime-sulphur, use 2 pounds of the dry compound in place of 1 gallon of 33 degree lime-sulphur solution.

We can save you 25 per cent and more on your spray expense. Will you let us show you'

A dry powder, easily dissolved in cold or hot water.

Makes a perfect solution; used in the same way as lime-sulphur.



Perfect Fruit — Orchard Insurance

PRICE

150 pound drum	$18.00
100 pound drum	13.00
10 pounds	2.75
1 pound	.35

INSECTICIDES AND FUNGICIDES

BLACK LEAF FORTY. A solution of nicotine sulphate containing 40 per cent nicotine. The most highly recommended spray for soft bodied sucking insects such as plant lice, thrips, leaf hoppers. Also used for canker and currant worms, cherry slug, etc. Mixed with Lead Arsenate and Lime Sulphur it is at one time a remedy for scab, lice, and codling moth on a tree. Four sizes, 1 ounce bottle 25 cents; ½ pound $1.00; 2 pound can $3.25; 10 pound can $13.75. **Cannot be mailed.**

BLUESTONE. We carry only a high grade eastern Bluestone. This material is used for making Bordeaux Mixture as a spray for plant diseases, in the chicken house, etc. It is also used as a preventive for barley and wheat smut, by soaking the seed in a solution of one pound to five gallons of water for ten minutes. Per pound 25 cents. Write for prices in larger quantities. **Can be sent parcels post.**

CANN'S ANT EXTERMINATOR. A liquid material for spraying ant hills and also in the house. Very efficient. 4 oz. bottles 30 cents; 6 oz. bottle 45 cents. **Cannot be mailed.**

CARBON BISULPHIDE. A highly inflammable liquid used for fumigating stored grain and seeds, to get rid of the weevil. Also used against ants. Pints, 40 cents, quarts 60 cents, gallons two dollars. **Can be sent by freight only.**

CARCO. The only successful material we know to combat wire worms, mealy bugs and other insects in the ground. Highly concentrated and should be diluted from 100 to 200 times with water. 6 oz. bottle 50 cents; pints 75 cents; quart $1.25; half gallon $1.75; gallon $2.50. **Cannot be mailed.**

FISH OIL SOAP. An excellent and inexpensive means for killing plant lice and scale insects. Makes a good wash for trees and plants, kills insects and their eggs on the bark. Contains 66 per cent fish oil, which is a greater per cent than any other soap on the market; 1 pound 25 cents. In large quantities we quote very low prices. **Can be mailed.**

FLORAL NICOTINE

Everybody that has a garden knows the green bug or aphis which is so prevalent on rose bushes, etc., in the spring months. Their attack results in weak plants, and in spoiled blossoms. We are now offering to the public this material known as Floral Nicotine, which is the most effective insecticide for this purpose that we know. It is a concentrated material and will give very good results; 25 cents, 50 cents, and $1.00 sizes. **Cannot be mailed.**

FORMALDEHYDE. It is of pronounced efficiency in destroying disease germs, affecting both animal and plant life, and is a successful preventive of fungus diseases as scab, rust, smut, etc. The dilution used is one pound (pint) Formaldehyde to 25 or 30 gallons of water; ½ pound bottle 75 cents, 1 pound bottle $1.35, quart bottle $2.00, gallons $7.50. **Cannot be mailed.**

LEMON OIL INSECTICIDE—SCALE KILLER

We are the California distributors for this highly successful material. It has been used in the East for a long time by the florists, nurserymen and private gardeners, who recommend it for destroying scale insects, mealy bug, lice, thrips, etc. It is odorless, non-poisonous, and economical. We are very glad to be able to offer this to the public as we feel certain every user will be highly satisfied.

½ pint	$0.40	½ gallon	$2.00
1 pint	.65	1 gallon	3.50
1 quart	1.15	5 gallon	15.00

Can be mailed.

LIME SULPHUR (Rex Brand). The best combination insecticide and fungicide on the market. A standard remedy for the San Jose and other scales on deciduous fruit trees. A sure remedy for the pear leaf blister mite and the oyster shell bark louse. As a fungicide it ranks with the well known Bordeaux Mixture. In three sizes; pints 25 cents, quarts 40 cents, gallons $1.00. **Cannot be mailed.**

NICO-FUME FUMIGATING PAPER. A tobacco paper of proven worth for fumigating greenhouses against aphides, thrips, etc. 24 sheet can $1.25; 144 sheet can $5.00; 288 sheet can $9.50. **Can be mailed.**

ROSIN SPRAY. This spray is recommended by most horticultural authorities as being the best insecticide for scale insects. It is an improved form of the well-known Resin Wash, and is far more convenient to handle and on account of its greater concentration is more economical. In pounds, thirty cents, two pounds at forty-five cents, and four pound cans at seventy-five cents. Also larger sizes. The pound can makes two and one half gallons of spray. **Can be mailed.**

SLUG SHOT. A fine powder used either in sprayer or duster, thoroughly reliable in killing currant worms, potato bugs, cabbage worms, slugs, etc. Also aids the prevention of blights. 1 pound package 20 cents, 5 pound package 75 cents. **Can be mailed.**

SOLUBLE SULPHUR COMPOUND. A very effective material for controlling San Jose Scale, plant blight, leaf spot and many other insect pests and diseases. For full description see page 130. **Can be mailed.**

SULPHO TOBACCO SOAP. A combination insecticide and fungicide. A good cure for aphis and other soft bodied insects, and also a remedy for mildew. Makes a fine wash for trees and bushes. 3 oz. cake 10 cents; ½ pound 20 cents. **Can be mailed.**

ANCHOR SULPHUR

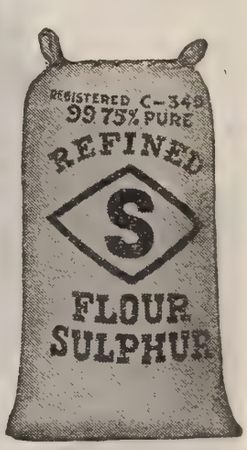
It has been proven and so recommended by the University of California that if you sulphur your grape vines and orchards **six** times they will not be affected by **Mildew** or **Red Spiders.**

Anchor Brand Velvet Flowers of sulphur, packed in double sacks, the fluffiest and purest sulphur that money can buy; the best for vineyards; the best for bleaching purposes, leaving no ash. Per lb. 10 cents; $6.00 per sack of 110 lbs.

DIAMOND "S" SULPHUR

For Lime-Sulphur Solution, use our Diamond "S" Brand Refined Flour Sulphur. We can furnish you this sulphur at such a low price that it would pay you to mix your own solution and net you a profit equal to the amount paid out for labor in spraying your orchard, even if you pay your men $4 per day for making the solution and applying same.

To create additional available plant food, drill into the soil 100 to 400 pounds per acre Diamond "S" Brand Powdered Sulphur, 100% pure. This has increased various crops up to 500%. Per sack of 110 pounds $4.25.



TALBOT'S ANT EXTERMINATOR. A dry, non-poisonous powder, easy to handle and safe to apply anywhere in the home or garden to get rid of ants. In four sizes; 25 cents, 50 cents, $1.00 and $4.00. **Talbot's Powders are also put up for Bed Bugs, Fleas and Moths, and Roaches. Please specify the particular kind wanted.**

All Talbot's Exterminators **are mailable.**

TREE TANGLEFOOT. For protecting trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One application remains sticky on the trees three months fully exposed to the weather. Easily applied with a small wooden paddle; 1 pound will spread 8 feet long by 5 inches wide, 1-16 inch thick. Will stay on trees three months. 1 pound can 60 cents, 3 pound cans $1.75, 10 pound cans $5.00 **Mailable.**

WATCH-IT-GET-EM. This is a complete line of insecticides for the most common insects about the home. The ant powder, the bed-bug, the fly, and also the roach, are by far the best and most efficient insecticides of their kind. Sold on a guaranteed basis. In twenty-five, fifty, and dollar size cans. When ordering specify particular insect. **Can be mailed.**

WEED KILLER. So many gravel walks in California homes are bothered with devil grass coming through. This preparation is particularly effective against this weed, morning glory and many others. Quarts, $1.25; gallon, $4.00. **Cannot be mailed.**

DUSTING VERSUS SPRAYING

It has been years since there has been developed such a revolutionary means of insect control as the Dusting Method. Its advent marks the greatest step since the introduction of sprays and spray pumps and is such a vast improvement over the spray that the largest fruit growers all over the country are enlisted under its banner.

Dusting in itself is a comparatively old method of control for insect pests and fungous diseases. It fell into disrepute, however, because while it was recognized that dusting was much simpler and a greater labor saver than spraying, the materials available were of such a nature that they did not lend themselves to the effective control of tree troubles.

With the introduction, however, of such materials as Corona Dry Arsenate of Lead and fine grades of Sulphur, rapid progress was made against fungous diseases such as apple scab, and insects such as codling moth, red spider and many others.

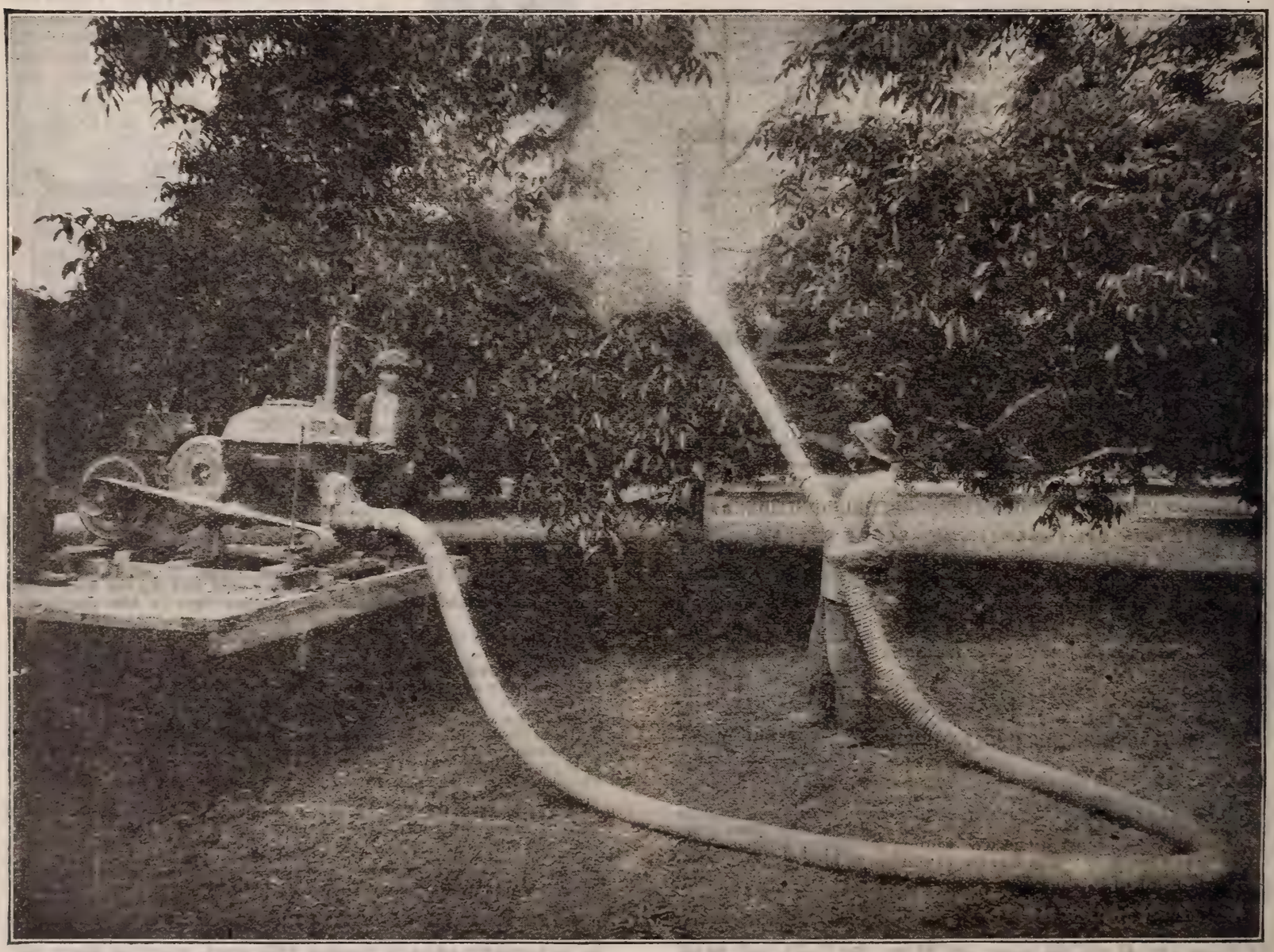
PROFESSOR SMITH'S REMARKABLE DISCOVERY

There still remained a class of insects known as the aphides, for which no satisfactory material had been developed. The Walnut Aphis, the Rose Aphis, the Melon Aphis and a host of others had to be combatted in the old way, namely by spraying with a nicotine solution.

Several years ago Professor Ralph H. Smith of the University of California, became interested in dusting and after investigation and experimentation devised a dusting material for aphis control.

Professor Smith's discovery revolutionizes the work of pest control. It makes it a comparatively simple matter as compared with the spraying. Last season the walnut growers in the Santa Barbara section in practically every case dusted their trees against the Walnut Aphis, with the result that they had bigger and better crops than they have ever had.

Mr. Carlyle Thorpe, manager of the California Walnut Growers Association in a statement said: "It is true that practically all of these insect pests have been controlled at times in the past by the application of wet sprays, but the expense attached to this method has made the spraying of some crops practically prohibitive. It is possible to apply dusting compound for but a fraction of the expense attached to the use of wet sprays, and we believe that the results are better in the long run. It is likewise true that where insect pests can be destroyed at such a low cost the practice of treating crops for the destruction of such pests is certain to become universal. I shall be surprised if fully 90 per cent of the walnut growers in California do not dust their trees next year if insect pests put in their appearance."



THIS SHOWS A NIAGARA DUSTER IN A GOLETA, CALIF., WALNUT ORCHARD

ADVANTAGES OF DUSTING

Orchards which formerly took three men and a team two days to spray can be given the same protection against most insects and disease with two men and a team in three hours time. This saving in labor and rapidity in operation is of vital importance to the fruit grower in the busy spring time when so much other important work must be neglected for spraying, and when the effectiveness of the fungicide depends upon applying it at critical times. In the dusting operation there is no water to haul, there is no time wasted in filling or in going to and from the water supply as enough materials for one-half day's work may be carried on the wagon or left conveniently at the end of the rows in the orchard.

The total weight of the dusting machine complete with engine is less than 1000 pounds; therefore, wet seasons, soggy ground or rough surfaces interfere in no way with dusting operations, and many times it is possible to use the dusting machines in places where working with the heavy, cumbersome spray rig would be impossible.

The mechanism of the dusting machine is very simple and the wearing parts are very few as compared with the average spraying machine. Therefore, there are no delays from break-downs or adjustments when it is most important that the outfit should be in operation. Simplicity means reliability. Few wearing parts means long life and little depreciation.

By the dusting method a dense cloud may easily be thrown over the highest fruit trees, or it may be used with equal efficiency for bush fruits, potatoes, or other low-growing plants, oftentimes obtaining perfect distribution in places where it is impossible to spray.

Unlike spraying, dusting is a pleasant and interesting operation and it is not necessary for the operator to in any way come in excessive contact with the materials he is using.

The labor problem is now becoming more acute than ever on the farm and in almost all localities it is impossible to secure competent labor for spraying at times when this work is most pressing. By the dusting operation large acreages may be covered in a single day. This fact largely eliminates the labor problem.

In many sections growers find it impossible to obtain ordinary help which is thorough and understands the handling of a small mist of spray so as to obtain good results. Dusting requires the exercise of ordinary intelligence, but it is much easier to do a good job of dusting than a good job of spraying.

Considering all of the expenses which finally enter into the cost of producing a crop of fruit, it has been demonstrated conclusively that the dusting method averages an actual saving of 25 per cent. over liquid spraying. In addition to this, the initial outlay, upkeep and maintenance expended for dusting machinery is considerably less than for spraying machinery.

Besides the many advantages mentioned, dusting has numberless other features which are of vital importance to every man who is attempting to make a profit from growing fruit. Many different individual problems which have only been semi-successfully worked out by liquid spraying may now be solved by the use of the dusting method.

COMPARISON OF COST IN APHIS CONTROL IN WALNUT ORCHARD

Spraying		Dusting	
Labor	$4.50 per acre.	Labor	$1.00 per acre.
Material	6.50 per acre.	Material	6.00 per acre.
Total cost	$11.00	Total Cost	$7.50

MIXTURES

Write for Prices on Any Quantity. Due to the Fluctuating Market Conditions We Are Unable to Quote Firm Prices

NICODUST—A Nicotine Dusting Mixture very effective against practically all aphids and thrip infesting citrus and deciduous trees, sweet peas, melons, cotton, vegetables and flowers.

DOUBLE NICODUST—A similar mixture to the Nicodust, containing however, twice as much nicotine. It is used principally against very resistant aphids. Used with marked success by the sweet pea growers in the Lompoc and San Luis Obispo sections.

WALNUT APHIS MIXTURE—This is the material that was used so successfully by the Walnut Growers of California.

WALNUT APHIS AND WORM MIXTURE—A combination of the Walnut Aphis Mixture with Basic Lead Arsenate to combat the codling moth of walnuts.

NICOSULPHURDUST—A combination of Nicodust and Special Dusting Sulphur for combatting aphids, thrip, red spider, mildew and other fungous diseases and insect pests.

ARSENATE OF LEAD AND KAOLIN—Used principally in the apple sections against codling moth, on apples and pears. Also used on other fruits, vegetables and flowers where worms, beetles and other chewing insects are to be controlled.

ARSENATE OF LEAD AND SULPHUR—A combination of a poison and a fungicide for the same purposes as the Arsenate-Kaolin Mixture, but in addition is effective against red spider, mildew and other fungus troubles.

DUSTING SULPHUR—We recommend very highly this Sulphur for all purposes where a dusting sulphur is required. Practically every bit of it will go through a 200-mesh sieve and all authorities are agreed that the effectiveness of a sulphur depends on its fineness. We can furnish this material in any quantity, from a sack to carloads.

NICOGARDENDUST—This is a combination of arsenate of lead, sulphur and nicotine which is used as a dust and is very effective against practically all the garden troubles met with in a garden. It will kill chewing insects, aphides and will cure mildew and other diseases. Use as directed on the package. Very effective and economical. In small packages, **35c;** 1-lb. packages, **60c;** 5-lb. packages, **$2.50. Cannot be mailed.**

COMBINATION DUST—In many cases it is possible to control several pests at one application by mixing together several materials, such as nicotine, sulphur, lead arsenate, blue stone or whatever may be required for the particular purpose. Our "Nico-Dust" Garden Mixture is of this nature, controlling most of the ordinary fungous and insect pests by virtue of the sulphur, lead arsenate and nicotine which it contains. We would be glad to make up such combined mixtures of any special purpose, endeavoring to include such ingredients and in such proportions as will give the best results at the lowest possible cost, and avoiding the use of unnecessary materials which only add to the expense.

Our "Nico Dust" General Aphis and Thrip Mixture, containing two per cent. nicotine, is strong enough to kill any insect which can be killed with nicotine and we recommend this mixture for general use. There are cases, however, where a weaker mixture would answer the purpose and a certain amount of the expensive nicotine could be saved. In cases where a considerable amount of material is needed for a special purpose we would be pleased to advise or experiment on the minimum strength of nicotine which may be used and make up special mixtures at the lowest possible cost.

MODEL F NIAGARA DUSTER

The largest of the Niagara Dusting Machines. Operated by any 2½ to 3 h. p. sprayer engine. Capacity and power ample for the largest trees.

Instantaneous Feed Control permits regulation for smallest tree. Hopper holds 100 lbs. dusting materials. Can be refilled without stopping.

Especially adapted for dusting **large trees,** such as **walnuts, apples,** and large **field crops,** such as **beans,** and yet can be used for the smallest trees and crops.

The regular outfit is equipped with a single 4-inch discharge pipe for tree work.

Model F, on skids, without engine.....$225.00

MODEL W NIAGARA DUSTER

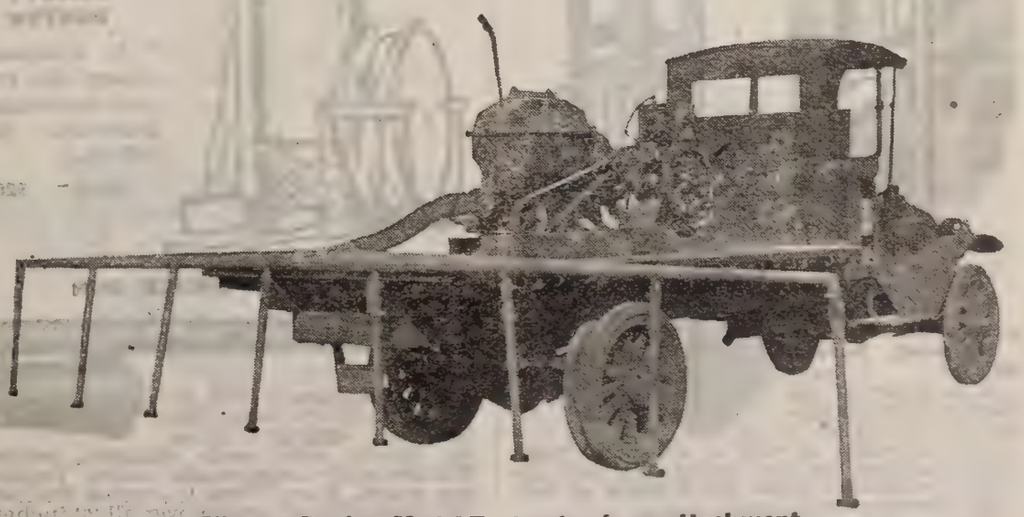
Built exactly the same as the S model, excepting that it is smaller and lighter. Equipped with a single 3-in. discharge pipe for tree work. Operated by any 2 h. p. sprayer engine.

Instantaneous feed control permits discharge of full volume down to as little as may be desired.

Capacity and power ample for the most speedy dusting of such trees as peaches, prunes, almonds, apricots and for vineyards and field crops.

Price f. o. b. Los Angeles.

Model W, on skids, without engine.....$200.00

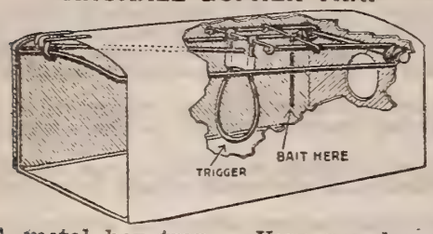


Niagara Duster, Model F, showing bean attachment.

See page 134 for smaller

TRAPS—GOPHER POISONS—DUSTERS

KNOXALL GOPHER TRAP

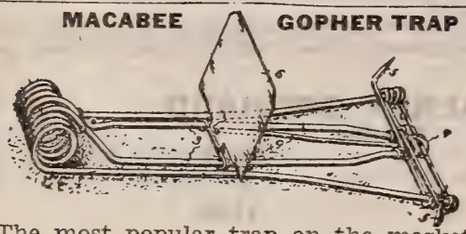


A metal box trap. Very popular and efficient. Each.....**$0.30**

WESTERN WOOD BOX GOPHER TRAP

An old but popular and satisfactory style. Each **$0.30**

MACABEE GOPHER TRAP



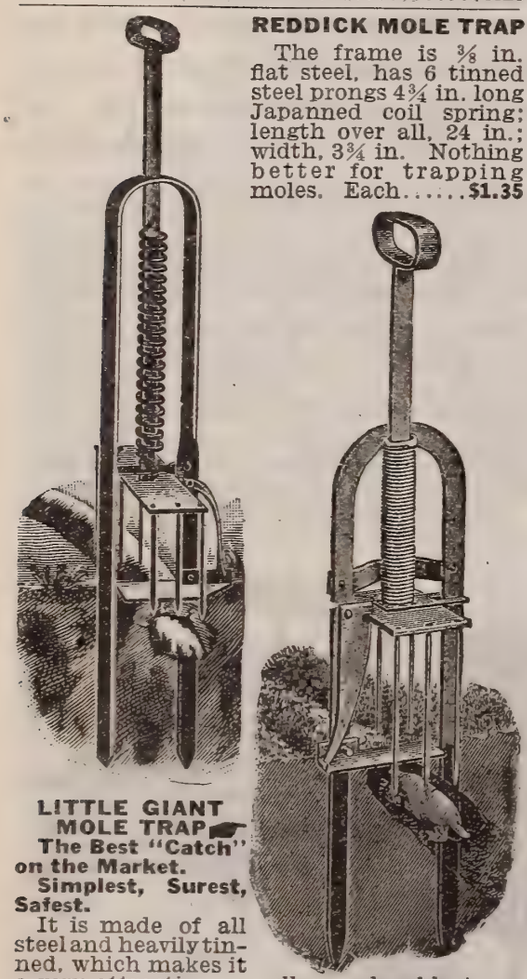
The most popular trap on the market. Made of strong steel wire. Each.....**$0.25**

THE ROY GOPHER TRAP

This is the simplest trap, easiest to set and most effective on the market. There is no danger of injuring the finger and it can be handled with safety by anyone.
Price each.....**$0.25**

REDDICK MOLE TRAP

The frame is ⅜ in. flat steel, has 6 tinned steel prongs 4¾ in. long Japanned coil spring; length over all, 24 in.; width, 3¾ in. Nothing better for trapping moles. Each.....**$1.35**



LITTLE GIANT MOLE TRAP
The Best "Catch" on the Market.
Simplest, Surest, Safest.

It is made of all steel and heavily tinned, which makes it a very attractive as well as a durable trap. The spears are made of spring steel and are therefore smaller than those made of soft steel, piercing a mole more easily.
Price each.....**$1.25**

KILMOL

This is a preparation which is recommended by State and Government authorities as being the most effective method for exterminating gophers and squirrels. It is composed of a liquid that gives off asphyxiating gases and also irritant poisons which insure the death of the animals. This material can be applied with either a special pump for that purpose or the waste ball method. (Not mailable.) Prices, 1 gallon, **$2.25**; 5 gallons, **$8.50.** Write for circular. **Sent by freight only.**

CARBON BISULPHIDE.

This is a liquid which when placed in a gopher or rat hole gives off fumes which are poisonous to these rodents. In the open air there is no danger to the operator. Quarts **60** cents, gallon **$2.00. Not mailable, sent by freight only.**

WASTE BALLS

These balls are made of jute and absorb about an ounce of Kilmol or carbon bisulphide. These are placed in the hole and a match applied. This is a satisfactory method during the rainy season. Price **85** cents per 100. **$7.75** per 1000.

BUNT'S RODENT EXTERMINATOR

A cartridge which when ignited gives off fumes poisonous to the gopher. Very effective. Per 100 **$3.50,** per dozen **50** cents.

EUREKA SQUIRREL EXTERMINATOR

By working the bellows the Carbon Bisulphide generates a gas which is forced into the gopher holes, not forcing any of the liquid. Price **$15.00.**

POISONED BARLEY

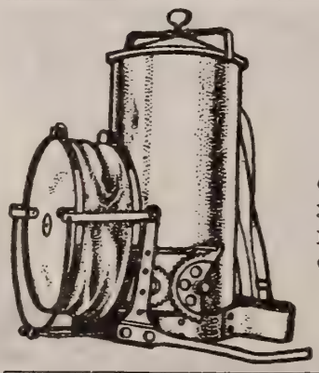
Extensive experience with this type of Poisoned Barley has shown an efficiency far ahead of any other type of poisoned grain tested. The percentage of squirrels destroyed is far higher than with any other type of poisoned grain used.

The bitter taste of the strychnine is delayed for several minutes and squirrels can place in their cheek pouches a considerable quantity before any bitter taste is noted; it is then too late for the squirrel to get rid of the poison, as enough has been absorbed to kill the animal.

Prices, 1 pound can **50** cents; 5 pound can **$2.00;** 50 pound drum **$11.50;** 100 pound drum **$20.00. Not mailable.**

GOPHERGO

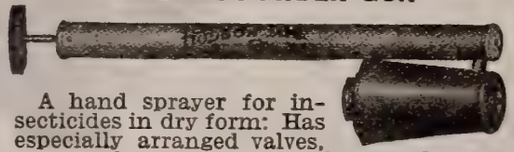
Ready and easy to use. No mixing, no waste, never loses strength. Guaranteed to do the work or your money refunded. The only thing that will get a pocket gopher, and will kill ten where a trap will get one. **Not mailable.**
10 oz. can.....**$0.50** 20 oz. can.....**$1.00**



AMERICAN BEAUTY DUSTER

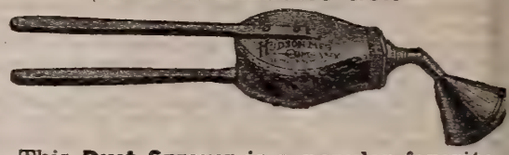
A knapsack duster for vineyard and orchard purposes. Very efficient.
Each....**$20.00**

HUDSON POWDER GUN



A hand sprayer for insecticides in dry form: Has especially arranged valves, no powder can reach plunger leathers. Plunger rod exceptionally heavy. Capacity one quart. Pump Tube 1½ inches diameter, 19½ inches long, length over all 22 inches.
Price each **$1.00**

HUDSON BELLOWS GUN

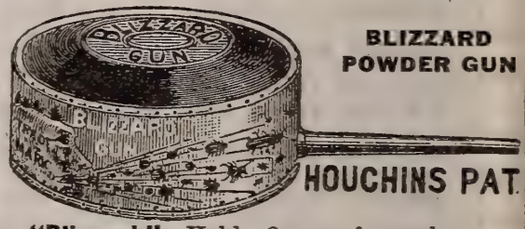


This **Dust Sprayer** is a popular favorite, and is used throughout the entire United States for dusting Paris Green, Arsenate of Lead, Hellebore, Persian Insect Powder, and in fact, all insecticides in their dry state. It is exceptionally well made, has hardwood head block and handles, basswood sides, fine grade of leather for the bellows. All material used is the best obtainable. An elbow is used to tilt the funnel for getting under the leaves, etc. By unscrewing the funnel the powder is put directly inside of Sprayer and is kept constantly agitated by the action of the bellows, insuring a uniform discharge with each operation. Price each.....**$2.00**

STAR POWDER GUN

"Star." Made of brass, holds 1 oz. of powder. Price each **$0.20**

BLIZZARD POWDER GUN



"Blizzard." Holds 2 oz. of powder.
Pric eeach.....**$0.30**

JUMBO POWDER GUN

"Jumbo." Holds 4 oz. of powder.
Price each.....**$0.50**

FLORODORA POWDER GUN

"Florodora" Powder Gun. Extra large gun, holds ½ lb. of powder. A perfect insect destroyer. Can be used with one hand. Especially adapted for spraying plants, shrubbery and animals of all kinds; can be used with or without the sprayer.
Price each.....**$0.50**

NURSERY AND ORCHARD SUPPLIES

BEESWAX

A doubly refined yellow wax unexcelled for pruning and grafting purposes. Pound cake **$1.00.**

BUDDING CLOTH

A cloth treated with resin and beeswax, useful for all budding and grafting purposes. Put up in ½ square yard and 1 square yard. The prices are respectively **50** cents and **90** cents.

GRAFTING WAX

A Lion Brand preparation for healing wounds on trees, caused by pruning. Very excellent also for spreading around the graft in grafting propagation. Three sizes: pound **45** cents, ½ pound **25** cents, and ¼ pound **15** cents.

PABCO PRUNING PASTE

In the pruning of trees, when the limbs are sawed off, the woody structure is left exposed. This wound is a possible gathering place for fungus growths, and if it cracks and opens to any extent, it immediately becomes a home for insects. This threatens the life of the tree, and if the wound does not heal quickly and properly, the tree is weakened and its productivity lessened.

PABCO Pruning Paste, if applied to the saw cut as soon as possible after pruning, insures successful healing.

Price, quarts **60** cents; gallons **$1.80**; 5 gallons **$8.00.** Write for prices in large quantities.

PENCILS, WOLF'S INDELIBLE

Will dispense with painting labels; **20** cents each.

TIN FOIL

5 and 6 inches wide, per lb. 35 cents.

MOSS

Moss Green. Fine and fresh. Is not stained. The best for hanging baskets. Per pound **25** cents. Quantity price on application.

Sphagnum Moss. Per bale $3.25.

PERMANITE

This is a putty material for use in greenhouses. Very highly recommended; 5 gallon cans **$10.00**; 10 gallon kegs **$19.00**; also in larger sizes.

RAFFIA

Natural, per bunch	**$0.10**
Natural, per lb	**.60**
Colored, per bunch	**.10**
Colored, per lb	**2.00**
Needles, per dozen	**.30**

List of Colors

Black, Lavender, Pink, Purple, Blue, Medium Red, Indian Red, Medium Green, Dark Green, Light Brown, Medium Brown, Dark Brown. Send for sample of colors.

REEDS

Put up in **10** cent bunches. Prices quoted by the pound on application on sizes we are able to supply.

JAPANESE TUBS

We always carry a large assortment of Japanese tubs for porch plants, in four sizes, varnished:

	Each
8 inches in diameter	**$0.75**
12 inches in diameter	**.75**
20 inches in diameter	**3.50**
16 inches in diameter (very scarce)	**3.00**

TWINES

	Each
Binders Twine, 5-lb. balls	**$1.75**
Garden Lines, in balls	**.65**
Hemp, ½ lb. balls	**.25**
Jute, ½ lb. balls	**.25**
Wool Twine, 1 lb. balls	**.40**
	Per lb.
Sacking Twine	**$1.25**
Budding Twine	**1.25**
Silkaline Green, box of 8 spools, per box	**1.25**

FLOWER POTS

	Each	Per Doz.
2 inch, 3 for	**$0.05**	**$0.20**
2½ inch, 2 for	**.05**	**.25**
3 inch, 3 for	**.10**	**.35**
4 inch	**.05**	**.50**
5 inch, 2 for	**.15**	**.75**
6 inch	**.10**	**1.00**

	Each	Per Doz.
7 inch	**$0.15**	**$1.25**
8 inch	**.20**	**2.00**
9 inch	**.25**	**2.75**
10 inch	**.35**	**3.75**
12 inch	**.65**	**7.50**
14 inch	**1.50**	

Fern Pots, about half size of flower pots, prices are the same. 5 inch smallest size.

Seed Pans, same price as Flower Pots, 4 inch smallest size.

HANGING FLOWER POTS

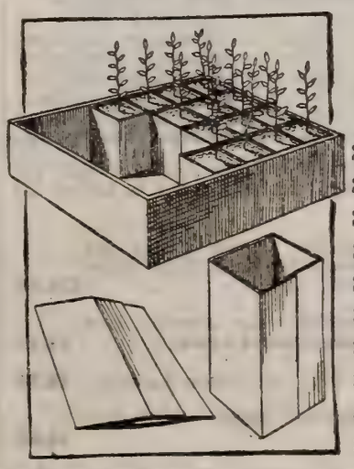
	Each	Per Doz.
7 inch	**$0.30**	**$3.25**
8 inch	**.35**	**4.00**
10 inch	**.50**	**5.50**
12 inch	**.90**	**10.00**
14 inch	**1.50**	**16.00**
15 inch	**2.00**	**21.00**

FLOWER POT SAUCERS

	Each	Per Doz.
4 inch, 3 for	**$0.10**	**$0.35**
5 inch	**.05**	**.50**
6 inch, 2 for	**.15**	**.65**
7 inch	**.10**	**.85**
8 inch	**.10**	**1.10**
9 inch	**.15**	**1.65**
10 inch	**.20**	**2.25**
12 inch	**.30**	**3.30**
14 inch	**.40**	**4.40**

TAR PAPER POTS

(Open Bottom)



Size	Price per M
2x2x3 inch	**$3.75**
2x2x4 inch	**4.60**
2x2x5 inch	**5.25**
2x2x6 inch	**6.25**
2x2x8 inch	**8.00**
3x3x3 inch	**4.75**
3x3x4 inch	**6.25**
3x3x5 inch	**7.25**
3x3x6 inch	**8.90**
3x3x8 inch	**11.00**

LABELS

Garden Labels

	Per 100	Per 1000
Painted, 8 inch	**$1.00**	**$9.00**
Painted, 10 inch	**1.15**	**10.00**
Painted, 12 inch	**1.40**	**12.50**
Pot Labels		
Painted, 4 inch	**.25**	**2.00**
Painted, 5 inch	**.30**	**2.25**
Painted, 6 inch	**.35**	**2.75**
Plain, 4 inch	**.20**	**1.75**
Plain, 5 inch	**.25**	**2.00**
Plain, 6 inch	**.30**	**2.40**
Tree Labels		
Copper wired, plain	**.25**	**2.50**
Copper wired, painted	**.30**	**3.00**
Iron wired, plain	**.15**	**2.00**
Iron wired, painted	**.20**	**2.50**

PLANT STAKES

Painted Green

	Doz.	Per 100
2 feet	**$0.70**	**$5.00**
3 feet	**.85**	**7.00**
4 feet	**1.25**	**10.00**
5 feet	**1.50**	**14.00**
6 feet	**2.00**	**15.00**

YUCCA TREE PROTECTORS

Length	Per 100	Per 1000
12 in.	**$1.25**	**$11.50**
14 in.	**1.35**	**12.00**
16 in.	**1.50**	**13.50**
18 in.	**1.75**	**15.00**
24 in.	**2.00**	**18.00**
30 in.	**2.25**	**21.00**

EXPAN TREE PROTECTORS

Be sure to state the size and kind you want, and then we can fill your order correctly.

No. 3 per 1000

14 inch, Price	**$12.25**
18 inch, Price	**13.75**
24 inch, Price	**17.50**
Black per 1000	
14 inch, Price	**$11.50**
18 inch, Price	**12.50**
24 inch, Price	**15.70**

WIRE HANGING BASKETS

(Round)

8-inch **60** cents, 10-inch **80** cents, 12-inch **90** cents, 14-inch **$1.25.**

WIRE HANGERS

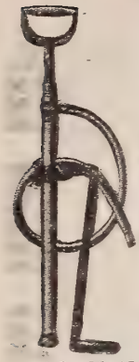
Wire hangers for hanging wire baskets and also for the hanging flower pots, 30-inch lengths, **10** cents each.

WIRE WALL POCKETS

8 inch **75** cents, 10 inch **85** cents, 12 inch **$1.00**, 14 inch **$1.25**.

☞ See Page 159 for [135] Thermometers of all kinds

DEMING SPRAY PUMPS



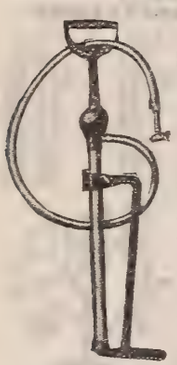
"PRIZE" SPRAYER, FIG. 669
For Garden and Greenhouse Spraying

Without some type of bucket spray pump, no assortment of garden tools may be said to be complete. The "Prize" is much used for spraying small trees, garden truck, flowers and shrubbery; washing windows, porches, autos and buggies; applying whitewash and disinfectants in barns and poultry houses; applying cattle-fly oil, stock dip, etc.

This is our lowest priced spray pump, but it is often referred to as "much in little." The "Prize" is double acting, discharging one-half the solution on both the up and down stroke, giving a continuous spray. It is light; easy to carry; and is "built for business.' will develop a good pressure, is easy to operate, is practically non-breakable and will last for years.

Shipping weight 9 lbs.

"Prize" bucket pump, as illustrated... **$7.00**
With "Bordeaux" nozzle instead of "Acme"... **7.75**
Seven-foot section of ⅜-in. hose with couplings and pole holder, for tree spraying... **2.75**
Agitator—Dash Disc, Fig. 759, furnished ready to attach to "Prize" and "Success" Pumps... **1.75**



"SUCCESS" SPRAYER, FIG. 659
For Garden and Greenhouse Spraying, Etc.

Without doubt, this is the most popular bucket spray pump on the market. Hundreds of thousands of them are today in use all over the civilized world. It is similar to the "Prize" pump, except that it has a large brass air chamber, which acts as a cushion while the pump is operated, and delivers a more uniform stream.

For spraying a small number of trees, for flower and vegetable gardens, greenhouses, etc., it is practically indispensable. The "Success" is also widely used for washing windows, buggies and autos, for applying whitewash and disinfecting barns and poultry houses, also for applying cattle-fly oil, stock dip, etc. An easy working, powerful pump, will last a lifetime if given reasonable care.

Shipping weight 10 lbs.

Each... **$9.00**

DEMING FIRE PROTECTOR, FIG. 1688
For Incipient Fires

Although originally designed for use as a fire extinguisher, this makes a very convenient outfit for the florist, gardener, poultryman and stockman.

It is slightly lower in price than the Handy Success Sprayer, and consists of our "Prize" pump with five-gallon galvanized iron tank, which is coated inside with special non-corrosive enamel and outside with two coats of red paint, all according to government specifications for fire protection in cantonments. Tank is fitted with cover, a part of the cover being hinged and fitted with a catch. Foot rest on tank holds outfit immovable. Pump is securely fastened to tank but may be easily removed. Three minutes of rapid pumping will empty tank.

Regular Equipment—Three feet of ⅜-in. hose and brass fire nozzle for throwing solid stream only.

Weight, boxed for shipment 25 pounds.

Fig. 1668—With galvanized iron tank, as illustrated... **$13.25**

"PERFECT SUCCESS" SPRAYER, FIG. 689
For Spraying Small Fruit Trees, Gardens

Fig. 689—The "Perfect Success" spray pump has some advantages over the "Success" pump in that the adjustable foot rest is combined with a bucket clamp. By means of this device, the pump and bucket are rigidly fastened together so the whole outfit can be carried from place to place by the bail when bucket is filled with mixture. Except for the combination clamp and foot rest the pump is the same as the "Success," and it has 4 feet of discharge hose instead of 3 feet. **The bucket is not furnished** but is illustrated to show how the outfit is used.

Shipping weight 12 lbs.

Each... **$9.50**

"HANDY SUCCESS" SPRAYER, FIG. 968
For Gardens, Live Stock, Etc.

The "Success" pump described above is here shown in connection with a four-gallon tank which may be had in either brass or galvanized iron. The bail and clamp hold pump rigidly without distorting the brass tube cylinder of the pump. This outfit has become very popular among florists, gardeners, poultrymen and stockmen.

Weight, boxed for shipment, is about 25 pounds.

With galvanized iron tank... **$14.50**
With brass tank... **17.50**

"AEROSPRA," FIG. 663
For Garden, Vineyard and Greenhouse

The "Aerospra" is the best and most durable compressed air hand sprayer on the market. It is convenient in all respects. **If the plunger is removed from the cylinder, it can be replaced without interference with the crimped plunger leather by placing it in the recessed cap of tank until the cap is attached again ready for operations.** The straps are for carrying it on the shoulders—or it can be carried by the handle, when carrying lock is attached—The operator can pump up and spray at rest, until the reduced pressure requires pumping again. The tanks are tested up to 100 pounds pressure—more than twice the pressure which is obtained by the average operator. The sprayer is patented and the **name "Aerospra" is a registered trademark.**

Shipping Weight—When boxed with all parts snugly packed the weight is about 20 pounds.

Fig. 663—"Aerospra" with brass air pump and **brass tank**, as illustrated and described... **$16.50**

Fig. 663—"Aerospra" as above, but with **galvanized steel tank**... **12.75**

Fig. 663—Brass with Adjustop Lance... **18.50**

Fig. 663—Galvanized with adjustop Lance... **14.50**

KNAPSACK SPRAYERS, FIGS. 675, 654
For Garden, Vineyard and Greenhouse

Fig. 675—The "Success" Knapsack sprayer (the cut to the left) is a useful implement for the florist and grower of vegetables and small fruits. As a vineyard sprayer it is much used, but sprayers of large capacity are now more in use for this purpose.

Fig. 654—"Prize" Knapsack sprayer (cut to the right) is similar to Fig. 675, except that the tank is of galvanized iron, and the "Prize" pump is used.

Shipping Weight—The weights boxed for shipment are about 40 pounds.

Fig. 675—With brass tank as described. **$27.50**
Fig. 654—With galvanized tank... **18.50**

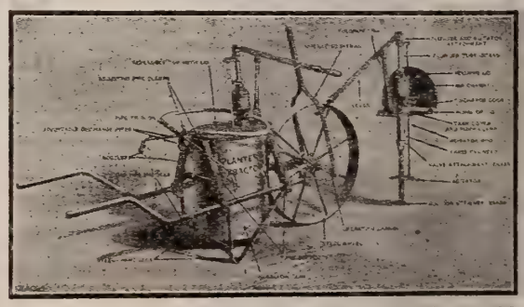
"AEROSPRA" JUNIOR, FIG. 777
For Garden, Poultry House, Greenhouse

This sprayer is on general principles constructed similar to the "Aerospra," Fig. 663, although smaller in size. No discharge hose is required, the nozzle being attached to the end of the discharge pipe and the spray controlled by thumb pressure upon the shut-off cock. The entire outfit is carried in one hand and the spray applied where wanted by simply pointing the discharge tube in the desired direction.

Shipping Weight—About eight pounds.

Fig. 777—"Aerospra Junior" with **galvanized steel tank,** as illustrated... **$8.50**
Fig. 777—"Aerospra Junior" as above, but with **brass tank**... **10.00**

"PLANTER'S TRACTOR", FIG. 822



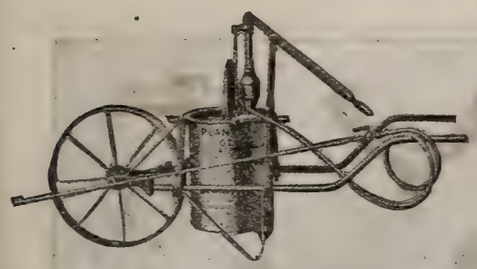
For spraying garden and field crops two rows at a time, this is a splendid machine. It is a "one-man power" outfit, in which the pump is automatically operated from the wheel. **Operates under 40 pounds pressure when pushed at ordinary speed.**

When used for **tree spraying only** the crosshead pin and connecting rod should be removed from the axle and pump lever, **reversing the pump and tank.**

Shipping Weight, about 150 pounds.

Fig. 822—"Planter's Tractor," complete with galvanized tank... **$50.00**
Fig. 822—"Planter's Tractor," with brass tank... **55.00**

DEMING SPRAY PUMPS

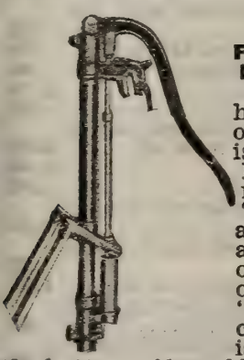


"PLANTER'S GEM" SPRAYER, FIG. 821
For Garden and Small Orchard Work

This is a spraying outfit of the wheelbarrow type, which fills a want among gardeners and planters for a one-man operated sprayer. Nothing of the kind that has ever been put on the market so completely meets this demand. The outfit is well designed and constructed, convenient for the operator, built for durability, and is as light in weight as is consistent with strength of the assembled parts. All working parts of the pump coming in contact with the liquid are brass.

Shipping Weight—When crated, is about 140 pounds.

with galvanized tank.....**$45.00**
Fig. 821—With brass tank for lime-sulphur and Bordeaux..... **52.00**



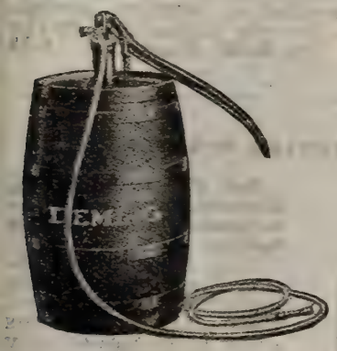
"MAJOR" BARREL SPRAYER, FIG. 832
For Spraying Small and Medium-Size Orchards

For the farmer who has either a young or old family orchard, this is an excellent pump. It has a smaller diameter cylinder than the "Century" (see below), and for this reason is adapted for use with one lead of hose and one nozzle only. The "Major" clamps to the chime of the barrel and is also firmly secured to the bottom of barrel by an anchor pin which fits into a recess in the pump.

The "Major" is also much used for disinfecting the farmyard, barns, poultry houses and stock pens; spraying stock dip and cattle-fly oil; for whitewashing buildings and fences, for deodorizing and purifying cellars, vegetable bins, dairy rooms, etc. **The barrel is not furnished, any good barrel may be used.**

Shipping Weight—Pump only, about 50 pounds.

Fig. 832—"Major" sprayer only, discharge fits regular ½-in. female hose coupling. **$17.00**
Outfit "A"—"Major" sprayer with one 12½-foot section of ½-inch hose, couplings and "Simplex" angle nozzle....**21.50**



"CENTURY" BARREL SPRAYER, FIG. 645
The Premier of all Barrel Sprayers

For more than twenty years, the "Century" has maintained its leadership among barrel sprayers. Thousands of "Centuries" are now in use all over the civilized world. **The barrel is not furnished.**

Shipping Weight—Pump only, carefully boxed, 75 pounds.

Fig. 645—"Century" barrel sprayer only, with "Y" connection, Fig. 364.....**$22.50**
Outfit "A," as above, with one 12½-ft. section of ½-in. "Deco" hose, couplings and "Simplex" angle nozzle.....**$27.00**
Outfit "B," with two 12½-ft. sections of hose, nozzles, etc.....**$31.00**

THE DEMING FOUR-ROW FIELD SPRAYER, Fig. 653
For Potato Plants and Other Field Crops.

For spraying potatoes, strawberries, small nursery stock, cotton fields, etc., this is a very convenient device, as it is easily and quickly attached to any wagon.

The nozzle holders can be adjusted to rows of any width from 22 to 40 inches for forward or backward spraying. They may be raised or lowered and brought together to pass through gate. **Our "Century" or Larger Sprayers can be used.**

Attachment: For any wagon or cart. Can be securely clamped on with set screws and bolts which are furnished.

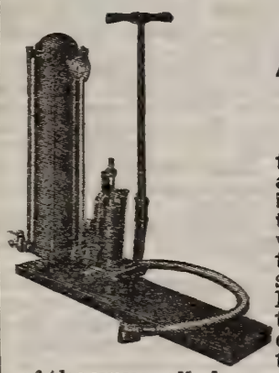
Adjustment: Height for spraying and width of rows can be easily arranged by the lock lever. Width of rows from 22 to 40 ins.

Hose and Nozzles: There are two sections of ⅜-inch hose connecting to the outer nozzles and two sections of ½-inch hose connecting to coupling in center, to which discharge hose of pump is attached. Four "Simplex" nozzles are used.

Shipping Weight: Partially crated to prevent breakage, is about 80 pounds.

Fig. 653. With four "Simplex" nozzles and hose sections, also couplings for discharge hose connecting to pump.

Price each.....**$30.00**



"SAMSON" DOUBLE-ACTING SPRAYER, FIG. 633
A powerful Pump for Use in Field and Orchard

The next best outfit to a power machine, **and the easiest working hand sprayer on the market.** Will develop a pressure of 150 to 175 pounds while supplying two leads of hose, and at the same time, permit the operator to rest between strokes, because of the unusually large air chamber and extra long lever. Is proof against corrosion and practically exempt from breakage.

Does speedy, thorough work. Thousands now in use. Positively the latest and best development in hand spraying, and a decided success from the start.

Shipping Weight—Crated, about 175 lbs.

Fig. 633—As illustrated and described.**$72.00**

"Samson" COMPLETE SPRAYING OUTFIT, FIG. 933
A Complete Outfit Mounted Ready for Use

So many of our customers have requested that our "Samson" pump (**Fig. 633, see above**) be fitted up complete ready for use, that we have constructed Fig. 933 to comply with their desires. This we consider to be the very best self-contained hand spraying outfit for use where a large number of trees are to sprayed within a limited period. By mounting the barrel upright on platform, we secure better agitation and greater safety in operation, such an arrangement permits the operator to stand in the center of the wagon while working the pump.

Shipping weight about 310 pounds.
Price.....**$115.00**

"PLANET" COMPLETE SPRAYING OUTFIT, FIG. 740
(Pump only is Fig. 763, listed below)
Another Complete Outfit Mounted Ready for Use

Many fruit growers prefer to purchase a spraying outfit complete with equipment and which can be easily connected to gasoline engine if desired. For the convenience of such users and our dealers we have produced the "Planet" complete spraying outfit. Fig. 740, the "Planet" outfit, is composed of "Planet" spray pump, Fig. 763, No. 1 (listed below), with equipment as shown.

Shipping Weight—Crated, about 275 lbs.

Fig. 740—"Planet" spraying outfit, **as illustrated**.....**$85.00**

PLANET PUMP, FIG. 763

Fig. 763 includes the "Planet", pump only (as on Fig. 740), but fitted with 10 feet of 1-inch suction hose and strainer, and with stub rod for attaching to pump jack for power. Price.....**$57.00**

"GARDENER'S CHOICE" SPRAYER, FIG. 651
For Garden and Field Work, Small Orchards, Etc.

This is one of the most convenient spraying outfits for general use. As an all-round utility sprayer it cannot be beaten. It is particularly adapted for both the garden and greenhouse, also for orchard use, as well as for spraying livestock in the barn and livery stable. It is a splendid whitewashing outfit, as the pump is strong and durable and has a good agitator.

Shipping Weight, including cart, when crated, is about 120 pounds.

Fig. 651—"Gardener's Choice" as described above.....**$45.00**

BARREL CART, FIG. 650
For Use with Barrel Pumps

The illustration shows the complete cart, Fig. 650, with barrel. The "Major" and "Century" pumps are used with Fig. 650. Our "Century" barrel pumps may be mounted on head of barrel. The "Major" anchors to bottom and fastens to chime of barrel.

Shipping Weights—Running gear with barrel complete as shown in the engraving, about 150 pounds. Running gear only, without barrel, about 75 pounds.

Fig. 650—Complete, with 50-gallon barrel.....**$34.00**
Fig. 650—Running gear only..... **29.00**

SPRAY PUMP ACCESSORIES

DEMING SPRAYING NOZZLES

Fig. 965—"Bordeaux." It is the best general purpose spray nozzle ever produced. Throws a solid stream, coarse long-distance spray, or a fine mist, or it may be shut off. It is an excellent nozzle also for whitewashing, disinfecting, etc. Easily disgorged.....**$1.50**

Fig. 766—"Simplex," light, durable and compact. Adapted for high pressure. Has two interchangeable steel spray discs, one coarse and one medium-fine spray. Does not waste liquid.. **1.00**

Fig. 766½—"Simplex" angle nozzle, similar to Fig. 766..... **1.00**

Fig. 753—"Demorel," similar to "Vermorel," but somewhat lighter in weight, with caps for fine and coarse sprays..... **1.00**

Fig. 963—"Vermorel," with caps for fine and coarse sprays. Obstructions readily forced out with spring disgorger. **1.15**

Fig. 866—"Giant Simplex" nozzle, **with strainer**, and arch spray disc, similar to Fig. 766, but larger, for extensive operations and high pressure..... **1.50**

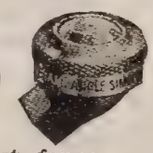
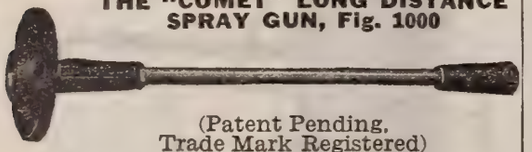


Fig. 866½—"Giant Simplex Angle" nozzle, **with strainer**, similar to Fig. 866..... **1.60**

Fig. 754—"Eureka," throws conical-shaped spray; disgorges by pushing against fence or tree. A good whitewasher..... **1.15**

Fig. 960—"Acme," will throw a solid stream or a fine spray. Furnished on "Prize" bucket sprayers..... **.75**

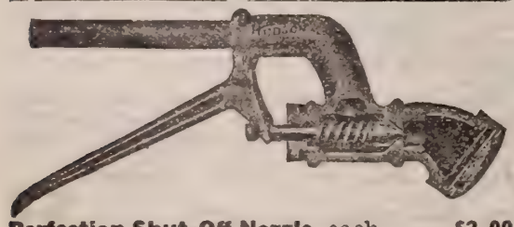
THE "COMET" LONG DISTANCE SPRAY GUN, Fig. 1000



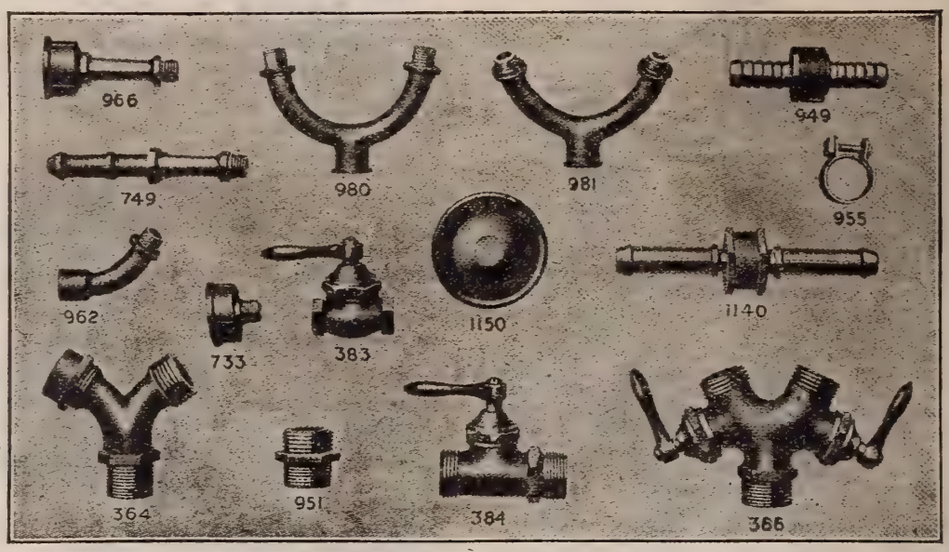
(Patent Pending, Trade Mark Registered)

The Lightest, Neatest, Strongest, Simplest, Most Convenient and the Best Spray Gun on the Market.

Where speed in spraying is the prime factor, we recommend the use of the "Comet" Spray Gun. With this powerful gun, one man can handle the full capacity of a power sprayer. Price each **$11.00.**



Perfection Shut-Off Nozzle, each.....**$2.00**

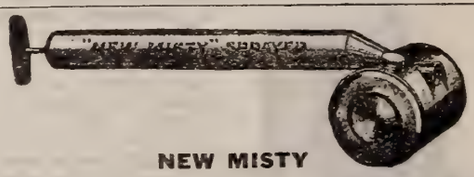


DEMING SPRAYING ACCESSORIES

Fig. 966—Combination coupling, female end, standard ½-inch hose thread; male end, ¼-inch iron pipe thread. Fits all ¼-inch nozzles..... **$0.75**
Fig. 749—Nozzle coupling and hose stock, ¼-inch male pipe thread; other end for either ⅜-inch or ½-inch hose, as specified..... **.60**
Fig. 962—Underspraying Angle Attachment; fitted with ¼-inch iron pipe thread.... **.60**
Fig. 980—Double Spraying Attachment; all connections are iron pipe threads..... **.85**
Fig. 981—Angle Attachment, similar to Fig. 980—guides spray..... **1.15**
Fig. 1150—Rubber Drip Shield..... **.45**
Fig. 1140—"Sure-grip" Hose Couplings for ½-inch hose. Used on all Deming barrel pumps and larger outfits. Hose stays clamped and cannot blow off..... **1.00**
Fig. 955—Hose Clamp for ½-inch hose, per doz..... **1.00**
Fig. 949—Standard Brass Hose Coupling, ⅜-in. and ½-in..... **.60**
Fig. 364—Brass Discharge "Y," without cock. Cap on one end. Double end for ½-inch hose; single end for ¾-inch iron pipe..... **1.25**
Fig. 733—Short combination coupling; large end, female ½-inch hose coupling; small end, ¼-inch pipe..... **.55**
Fig. 383—New Leakless Stop Cock with Ball Valves, ¼-inch pipe thread on both ends.. **1.25**
Fig. 951—Brass Hose Nipples for ¾-inch male pipe, one end; other end, ½-inch male hose thread..... **.60**
Fig. 384—Leakless Stop Cock with Ball Valves, ¾-inch pipe thread one end; ½-inch hose coupling male thread, other end..... **1.50**
Fig. 366—New Leakless Double Discharge Stop Cock with Ball Valves (sure shut-off).. **2.25**
Fig. 751—Bamboo Extension Rod, Brass Lined with Stop Cock, 10 feet..... **6.75**

RUBBER SPRAY HOSE

7-ft. section ⅜-in. Rubber Tubing with couplings and pole holder.....**$3.00**
12½-ft. of ½-in. "Deco" Hose, with Couplings, and Simplex Angle Nozzle **5.50**
25-ft. of ½-in. "Deco" Hose, with Couplings, Double Spraying Attachment and two Simplex Angle Nozzles**10.00**
50-ft. of ½-in. "Deco" Hose, with Couplings, Double Spraying Attachment and two Simplex Angle Nozzles.....**$16.50**
Continuous-Web "Deco" Sprayer Hose, ½-in., for 250 lbs. pressure, per foot.. **.28**
Rubber Tubing, ⅜-in., for Bucket and Knapsack Sprayers, per foot..... **.17**
10-ft. of 1-in. Wire-Lined Suction Hose with Strainer and Couplings..... **8.00**

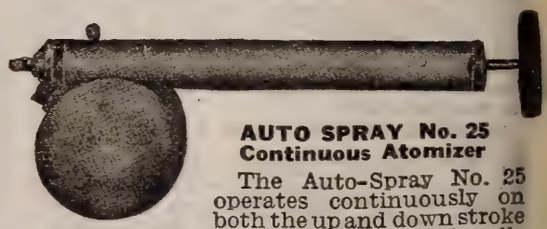


NEW MISTY

Our old standby. The best selling quart size sprayer. Carefully made and tested of good stock. The pump passing through the top of the can makes it very strong. By using this construction the air nozzle and spray tube are always in line. Every sprayer a good one. Made of a good grade of tin. Price.....**$0.80**

MIDGET SPRAYER

A small well made sprayer for household use. Will handle all kinds of liquids perfectly. The pointed nose of the pump passing through the tank makes it a very strong sprayer.
Price.....**$0.50**



AUTO SPRAY No. 25
Continuous Atomizer

The Auto-Spray No. 25 operates continuously on both the up and down stroke and throws a fine misty spray. Will handle all solutions, insecticides and disinfectants. Used in the greenhouse, kitchen, garden, window garden, for rose bushes and in the poultry house. Tin **$1.50**; Brass..... **1.75**

PERFECTION SPRAYER

For Potato Spraying, Whitewashing, Disinfectants, Cold Water Paints, Etc.

The Hudson Perfection Sprayer has a tank made like a steam boiler. The all-riveted seams give the necessary strength for developing a high pressure, which is absolutely essential for good results. The all-brass pump is placed inside the tank and is easily removed. Weight 10 lbs.

Galvanized Tank, each.....**$8.75**
Brass Tank, each.....**12.50**

PENNSYLVANIA LAWN MOWERS

PENNSYLVANIA JUNIOR, BALL BEARING

Blades—Five crucible tool steel, oil hardened and water tempered. Extra wide.
Gears—A triple set on each side.
Wheel Base—Extra long, cuts smoothly over uneven ground.
Bottom Knife—Raised edge of tempered, crucible tool steel.
Height of Cut—¼ to 1 1/16 inch. Will cut grass 6 inches high.
The Pennsylvania Jr. is the most perfect grass cutter in the world. Its self-sharpening features alone will make it worth its cost to the user, as it will save this expense until the blades are worn out—in average use a dozen years or more.

High Wheel

10-in. wheels. 6-in., five-blade cylinder.

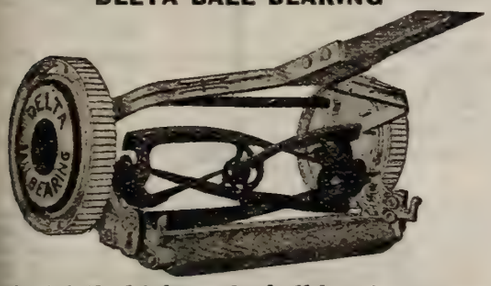
Width of cut, in...	15	17	19	21
Weight, boxed, lbs	71	74	77	80
Price, each.....	$34.00	$39.00	$44.00	$49.00

Low Wheel

8-in. wheels. 5½-in., five-blade cylinder.

Width of cut, in...	12	14	16	18
Weight, boxed, inc. handle, lbs.....	59	62	65	68
Price, each.....	$22.00	$24.00	$28.00	$31.00

DELTA BALL BEARING

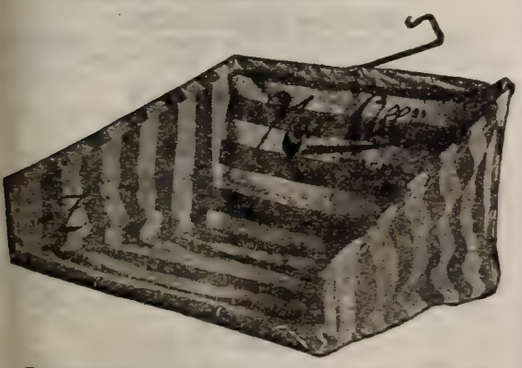


A strictly high grade, ball bearing mower for a small price, and one to stand hard service. Dust-proof bearings.

8-in. wheels. 5-in., four-blade cylinder.

Width of cut, ins..	12	14	16	18
Weight, boxed, lbs.	41	44	46	48
Price, each.....		$15.00	$16.00	$17.00

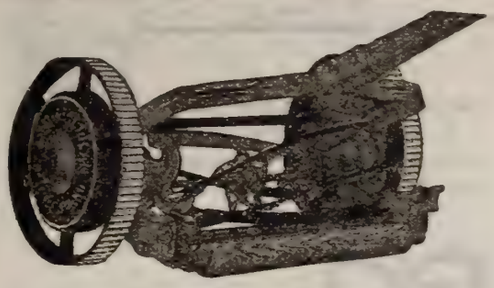
NOX-ALL GRASS CATCHER



Improved construction, perfect adjustment, made with wire hooks which fit into the slotted casting which holds the roller, spiral wire spring takes up the adjustment and holds Catcher securely; improved loop in the top frame which engages the handle hook preventing same from slipping, frame is adjustable and made of heavy galvanized steel wire and covered with cotton duck.

No. 10—For 12 to 16" Mower, wt. 3 lbs... **$1.25**
No. 20—For 16 to 20" Mower, wt. 3½ lbs. **1.40**

GREAT AMERICAN BALL BEARING



The Great American Ball Bearing is the best all-around mower of its type in the world. The perfectly-fitting ball cups and cones insure an easy running machine.

High Wheel

10-in. wheels. 6-in., five-blade cylinder.

Width of cut, ins..	15	17	19	21
Weight, boxed, lbs.	65	67	71	76
Price, each.....	$.2500	$28.00	$31.00	.....

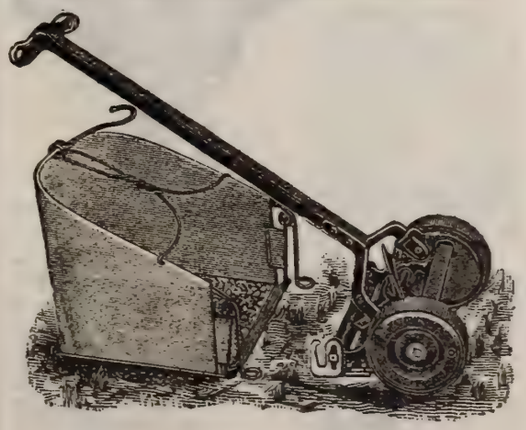
ELECTRA

Blades—Crucible tool steel, hardened.
Bearings—Parallel. Adjustable.
Parts—Malleable and cast, accurately machined to insure noiseless service.
Bottom Knife—Spring steel.
Height of Cut— ½ to 1 inch. Will cut grass 5 inches high.

8-in. wheels. 5-in., three-blade cylinder.

Width of cut, ins..	12	14	16	18
Weight, boxed, lbs.	39	41	43	46
Price, each.....	....	$12.00	$12.50	$13.00

EASY EMPTYING GRASS CATCHER

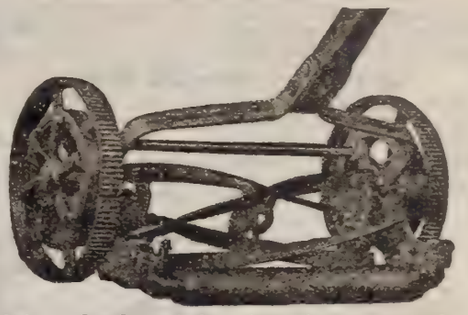


The **"Easy Emptying"** Grass Catchers are made very light for convenience in carrying on the mower, and, at the same time, strong and rigid. Every feature of their construction is the result of careful study.

The galvanized bottoms on the best grades are made with several rows of projections, which prevent the grass from slipping forward while mowing. This is a new feature which is greatly appreciated, and many people throw away their old catchers to get this improved kind. The bottoms are reinforced by raised beads making them very rigid and durable, yet light in weight.

Style	Bottom	Size Mower	Wt.	Price
No. 1G	Galv.	12 to 18"	5 lbs.	$1.75
No. 16G	Galv.	12 to 18"	5 lbs.	2.00

ORCHID BALL BEARING



10-in. wheels. 5-in., four-blade cylinder.

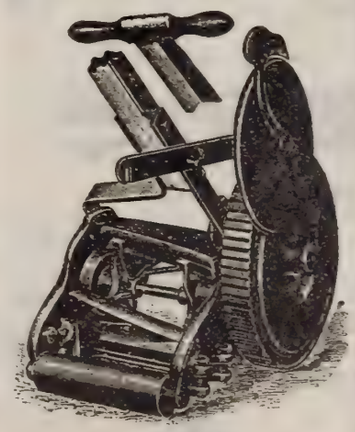
Width of cut, ins.....	14	16	18
Weight, boxed, including handle, lbs.....	50	54	58
Price, each.....	$18.00	$19.00	$20.00

BRAUN GRASS CATCHER

Canvas sides, galvanized bottom with extension to cover the roller of the mower and fit close to the lower knife. Supported by truss rods attached to handle braces. Instantly detached or can be emptied by dumping forward.

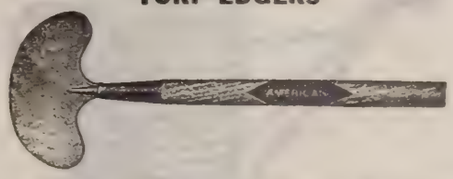
Sizes.....	10	12	14	15-16
Price, each.....		$3.00	$3.25	$3.50
Sizes.....	17-18	19	21	25
Price, each.....	$3.50	$3.75	$4.00	.....

CAPITOL LAWN EDGER



Has four spiral blades forged from crucible steel, oil tempered and ground, stationary knife bar, easy adjustment, single drive wheel 8½ inches in diameter, revolving cutter 5 in., fitted with shield over cutters protecting the flowers, trims and edges lawn perfectly.
Each... **$12.00**

TURF EDGERS



Solid steel shank and blade, 9x5 inches, bronze finish, 4 ft. handle.
Each..... **$1.40**

PERFECTION LAWN EDGER

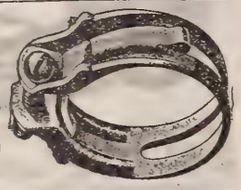
A very handy and inexpensive tool used for edging lawns.
Each..... **$2.50**

GARDEN HOSE, ATTACHMENTS, ETC.

GERMAIN'S SUN PROOF HOSE
Guaranteed two years. Sold in any length.
Price, ½-inch, per foot $0.26
Price, ¾-inch, per foot ..... .30

GERMAIN'S SPECIAL HOSE
The best in the market for the money. Each piece with our one year guarantee.
Price, ½-inch, per foot $0.17
Price, ¾-inch, in 25 and 50-foot lengths, per foot ..... .19

SHERMAN HOSE BANDS



Flat brass bands for couplings, ½ or ¾-in.
Each $0.10

MAGIC HOSE BANDS
Wire fastenings for couplings.
3 for $0.10

SHERMAN COUPLING

Polished brass, ½ in. and ¾ in.
Price per set $0.40

PERFECT CLINCHING COUPLINGS
Self fastening brass couplings, without extra bands.
½ in., pair $0.50
¾ in., pair ..... .50

COOPER MENDERS

Wrought brass, easily applied by simply driving prongs into hose. No bands necessary.
½ in., each $0.15
¾ in., each ..... .15

PERFECT CLINCHING MENDERS
Like the coupling, requiring no extra bands.
½ in $0.20
¾ in ..... .20

WOODEN MENDERS
Furnished in ½ in. and ¾ in. sizes.
Price per doz $0.30

TAPE
Friction tape in 2-oz. and 8-oz. rolls.
Each ..... 10c and 40c respectively

HOSE WASHERS
Rubber hose washers. Per doz $0.05

SPRINKLING CANS

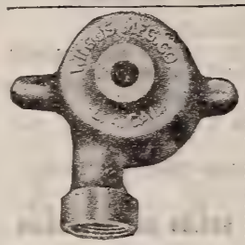
Heavy galvanized iron, made for durability.

4 qt	$1.40	10 qt	$2.25
6 qt	1.60	12 qt	2.50
8 qt	1.90	16 qt	3.00

CALICOFAN SPRINKLER
A handy sprinkler with a long spike for sticking into ground. Each $0.50

BLAKE SPRINKLER
Makes a revolving spray. Fitted for standard pipe.
Each $0.60

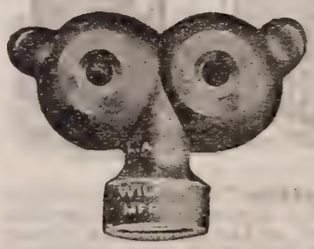
DAYTON SPRINKLER
The **Dayton** is the most practical, durable and efficient Sprinkler devised for watering lawns or gardens and is now being used by thousands of lovers of a beautiful lawn or garden.
The lawn sprinkler attaches to your hose. It sprinkles in a circle. It sprinkles in a half circle. It sprinkles from a 3 ft. radius to a 40 ft. radius, or an 80 ft. circle. It sprinkles every inch of the ground. It is better for your lawn or plants than sprinkling with a hose. It operates on any pressure from 20 lbs. up. The nozzle can be adjusted to any kind of a stream. It pays for itself in water saved and convenience. It is made of the best brass, aluminum and german silver.
Price Each $7.50



WILGUS No. 1 SPRINKLER
The original Wilgus Sprinkler, used the world over. The sprinkler that marked a new era in lawn sprinkling 25 years ago. This sprinkler will give satfaction where all others fail. Each, $0.40.

WILGUS No. 2 SPRINKLER

This is an improved sprinkler and has double opening to chamber, thereby insuring even circle. Also has center stream, giving fountain effect as well as distributing an extra amount of water close to sprinkler. Each $0.50.



WILGUS No. 7 SPRINKLER
This is the well known Twin Sprinkler used on nearly every lawn in the country and is to be found in every first-class hardware store in the United States.
Each $0.40

WILGUS No. 8 SPRINKLER

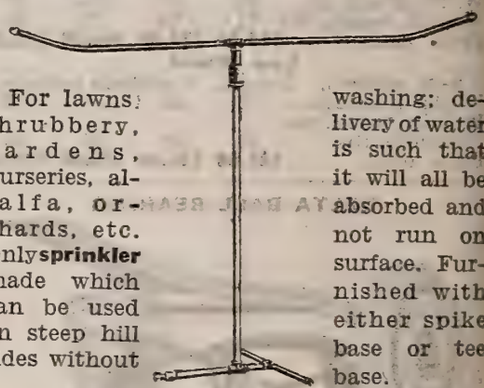
The popular Fan Sprinkler. Excellent for narrow strip of lawn or flower beds. Will cover large area on most any pressure. It is provided with large spike for sticking in ground to insure its remaining in position as required.
Each $0.35

WILGUS No. 21 SPRINKLER

This sprinkler is to provide the wants of those who want a sprinkler on a stand, and one that will not turn over when under pressure. All openings are smaller than our other styles and are especially designed to satisfy the user who wishes a fine rain-like spray. Each $1.15.

WILGUS No. 61
A portable sprinkling system. Cut the hose in eight to ten foot lengths and put in standard couplings, then place one of these at each coupling. So distribute these over your lawn or flower beds that you can sprinkle entire plot at one time. You get same effect and service as if you had submerged sprinkling system with pipe placed underground. Each $1.30.

TUTHILL ROTARY SPRINKLER



For lawns, shrubbery, gardens, nurseries, alfalfa, orchards, etc. Only **sprinkler** made which can be used on steep hill sides without washing; delivery of water is such that it will all be absorbed and not run on surface. Furnished with either spike base or tee base.

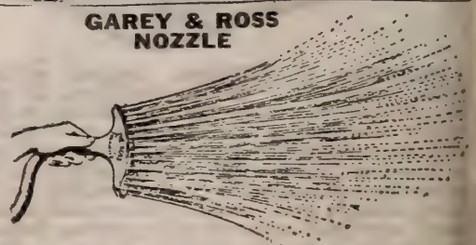
No.	Diameter Area Covered	Price Each Spike Base	Tee Base
1	30 to 40 ft.	$4.50	$5.00
2	40 to 60 ft.	6.00	6.50
3	60 to 80 ft.	7.00	7.50
4	80 to 100 ft.	9.00	9.50

BOSTON HOSE NOZZLE
Throws a coarse or fine spray, or a large or small stream as desired. Each $0.85.

AMERICAN NOZZLE
Similar to the Boston, but of lighter weight metal. Each $0.60.

ROSE NOZZLE
The Rose — Heavy round brass.
Each $0.85

GAREY & ROSS NOZZLE



Hand spray fan shape. Each $0.85.

TOOLS AND IMPLEMENTS

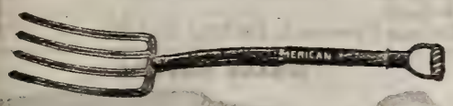
ASPARAGUS BUNCHERS

No. 1, well shaped bunches, 3-3½ inches in diameter, weighing about 1 lb., **$5.00**; No. 2, shapes bunches 4-5 in. in diameter, weighing about 2 lbs., **$6.00.**

NORCROSS CULTIVATORS

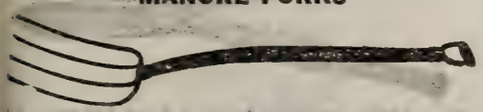
Prongs are ¼ in. square spring steel fastened to a malleablehead by bolts. Prongs are detachable by simply loosening nuts. Painted glossy black, shovels silver bronzed; white ash handle 4 feet long, nicely waxed.
3 tooth.....**$1.35** 5 tooth.....**$1.90**

SPADING FORKS



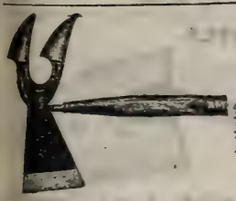
Four tines, D handle, diamond point, strapped shank.
Each.....**$1.90**
Four tines, long handle, diamond point, strapped shank.
Each.....**$1.75**
Five tines, long handle, diamond point, strapped shank.
Each.....**$2.75**
Four tines, D handle, ladies' size, strapped shank.
Each.....**$1.25**

MANURE FORKS



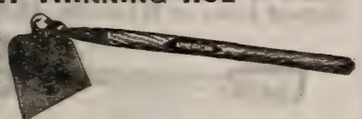
Four Tine—Strap Ferrule. 12-in. polished oval tines, blued strap ferrule, gold bronzed cap and head, iron D bent handle.
Each.....**$1.90**

ACME WEEDING HOE



4½ ft. handle and 4— in. blade, very handy.
Each.....**$1.75**

BEET THINNING HOE

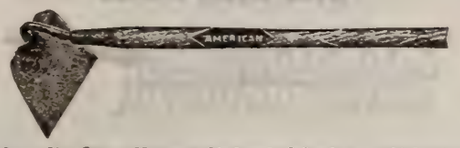


Polished blade, short handle, short goose neck solid shank, gold bronzed, plain ferrule, 18 in. handle.
4½ inch blade.....**$0.85**
5½ inch blade.....**1.00**

FLORAL SETS

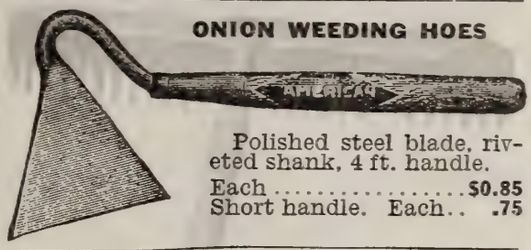
Three pieces, electric forged steel spade, 5x7 blade, 3½ ft. D handle, pressed steel rake, six curved teeth, 4 ft. handle, 4-inch solid shank hoe, 4 ft. handle.
Per set.....**$2.25**

GARDEN HOES



4— ft. handle, polished blade, solid steel shank, gold bronzed plain ferrule, furnished in 6, 6½, 7, 7½ and 8-inch blades.
Each.....**$1.40**
Extra handles, each.....**.65**
Ladies' size, each.....**1.00**

ONION WEEDING HOES



Polished steel blade, riveted shank, 4 ft. handle.
Each.....**$0.85**
Short handle. Each.. **.75**

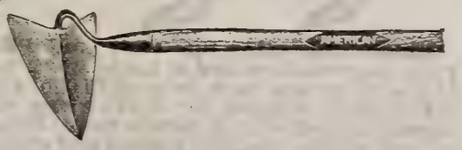
PLANTERS EYE HOES

Solid forged steel, half polished, round eye.
7 in. blade, without handle.
Each.....**$0.85**
8-in. blade without handle.
Each.....**$0.90**
9-in. blade without handle.
Each.....**$1.00**
Handles, each.. **.65**

SCUFFLE HOE

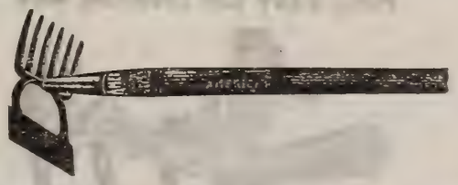
2½-ft. by 8 in. blade, 6-ft. handle (like illustration).
Each.....**$1.50**
Crescent shaped blade, 5-ft. handle.
Each.....**$1.25**

WARREN HOE



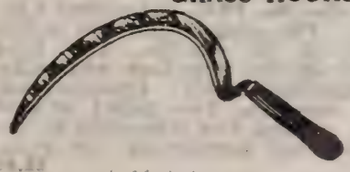
Solid steel, polished socket and blade, 4—-ft. handle.
7-in. blade.....**$1.35** 7½-in. blade...**$1.50**

WEEDING HOES



Malleable iron head, steel blade, 4 in. wide, solid shank, 4—-ft. handle.
1 point, each...**$0.65** 4 point, each...**$1.40**
2 point, each... **.75** 6 point (like illustration) ea. **1.50**

GRASS HOOKS



Village Blacksmiths No. 3 light. Each..**$0.80**
Village Blacksmith. No. 33 heavy. Each..**$0.90**

POTATO HOOKS

Goose neck, solid steel shank, plain ferrule, blued finish oval tines, 4—-ft. handle.
4 tines, **$1.40** 5 tines, **$1.80** 6 tines, **$2.00**

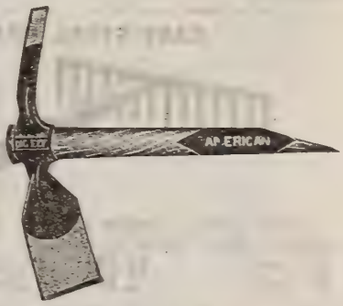
NURSERYMEN'S HOOKS

Two 9-in. steel prongs ¾x½ in. tapering to an edge, ⅝ in. solid steel shank, 1⅜ in. steel ferrule ring.
Each.....**$3.00**

CORN KNIVES

Village Blacksmith.....**$0.60**

DIG-EASY MATTOCK



Iron head, oval eye, tempered steel blade inserted in malleable head with two rivets in each end, 5-ft. handle.
Each....**$1.10**

RHODES DOUBLE CUT TREE PRUNER

Has the new double cutting feature, which leaves a smooth cut that heals rapidly. The usual difficulty of the blades drawing together in the double cutter is overcome by the overlapping points. The blades are forged from tool steel, carefully ground and tempered. Ferrules are of wrought iron, four inches long with an extra ferrule one inch long on the end.
Each.....**$5.00**

BASTIAN TREE PRUNER

With one-half the labor of other pruners you can prune your trees, or twice as many each day with a **Bastian Pruner.** It's the Pump Gun Action and the extra leverage which gives the speed and ease. Best of orchard men have proven this. 6 ft., **$2.00**; 8 ft., **$2.15**; 10 ft., **$2.45**; 12 ft., **$2.75**; 14 ft., **$3.00**; 16 ft., **$3.25.**

TOOLS AND IMPLEMENTS

FLORAL RAKES

Malleable iron rake, solid shank, 6 curved teeth, 4 ft. handle.
Each.....$0.60

SOLID END STEEL BOW RAKES

Head teeth and bows are one piece, blue and gold finish. This is a stiff, strong rake, with no hollows or angles to hold dirt.
12 tooth.....$1.55
14 tooth..... 1.65
16 tooth..... 1.75

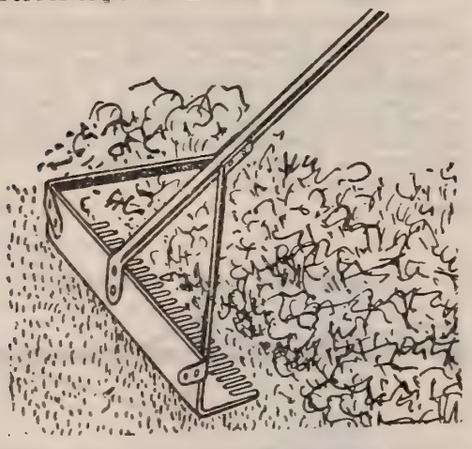
CAST STEEL RAKES

Cast steel, single shank, straight teeth, blued, plain ferrule.
10 tooth.....$1.20 14 tooth.....$1.45
12 tooth..... 1.30 16 tooth..... 1.60

MALLEABLE IRON RAKES

Malleable iron, braced shank, straight teeth, blued, plain ferrule.
10 tooth.....$0.70 14 tooth.....$0.85
12 tooth..... .75 16 tooth..... 1.00

WORTHINGTON LAWN CLEANER RAKE



Expert gardners say it's the best thing out and a great labor saver. The Worthington Lawn Cleaner Rake will do a multitude of things that can not be done with any other rake. Takes out wire grass, bunch grass, burr clover, dandelions, dead grass, small leaves and all other pests that spoil lawns.
Each.....$3.00

WIRE LAWN RAKES

Heavily tinned steel teeth. The arched teeth for leaves and litter and the opposite side for fine cut grass.
20 tooth, $1.00 36 tooth, $1.60 46 tooth, $1.75

PULL EASY LAWN RAKE

Dandelion Rake No. PER—Wedge-shaped teeth, gather in leaves and stems of dandelions, stripping them from lawn. Backward stroke cleans rake instantly. A wonderfully popular seller. Will rid a lawn of leaves and dead grass quicker and better than ordinary wire lawn rake and is self-cleaning. 16-gauge, high-carbon steel—18 inches wide, unbreakable teeth, 5-foot polished hardwood handle. Each.....$1.25

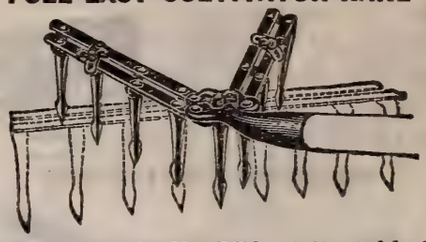
PULL EASY JUNIOR CULTIVATOR

Junior Cultivator No. PEJ1 and PEJ4—This four toothed tool is made with handles either one foot long (PEJ1) or 4 foot (PEJ4). Best adapted for cultivating small vegetables or flowers in narrow rows. Because of light weight, ideal for women and children to use. A big favorite in school garden plots. Adjustable 2 in. to 6 in. in width.
PEJ1. Each.....$0.70
PEJ4. Each..... .90

PULL EASY CULTIVATOR HOE

Cultivator Hoe No. PE5—Adjustable 6 in. to 12 in. wide. Five prongs each nine inches long. Sturdy 4 ft. handle. The long grasping teeth of the Pull-Easy will cultivate deeply and thoroughly. Instantly adjustable by loosening two broad winged thumb nuts, moving the side arms to the desired width and tightening the nuts.
Each.....$1.40

PULL EASY CULTIVATOR RAKE



Cultivator Rake No. PEC—Adjustable 6 in to 18 in. wide, nine teeth. All steel part enameled royal blue. French polishe handled 4½ ft. long. Middle tooth re movable for cultivating rows of small plant on both sides at the same time. This is th original Pull-Easy. Better than a rake fo preparing the soil. Each.....$1.5

PRUNING SAWS

Bishop's Crescent—Extra cast steel blade beech handle, three brass screws.
12-inch.....$1.3
14-inch..... 1.5
Bishop Crescent, folding handle..... 1.5

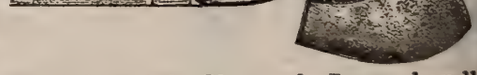
GRASS SHEARS

Village Blacksmith, very best mad 12 in. in length, 6-in. blades from 80c to $1.5

HEDGE SHEARS

No. 1007—Polished steel laid blades, 5½ in. cut, brass ferrule, steel bolt and nu maple handles.
5½-inch.....$1.75 9-inch.....$2.
8- inch..... 2.50 10-inch..... 3.

SHOVELS



Round Point Strapped—Long handl $2.35; D handle, $2.35; Round Point Sol Socket Long or D handle, $2.75.

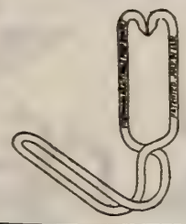
Shovels—Square Point Strapped Lo handle, $2.35; D handle, $2.35; Square Poi Solid Socket, Long or D handle, $2.75.

SPADES

Long Handle—Strapped, $2.35; So Socket, $2.75; **D Handle**—Strapped, $2. Solid Socket, $2.85; Ladies' Size, D-Hand $1.10; Nursery Spade, double steel, D-Han $4.00.

TOOLS AND IMPLEMENTS

TREE PROPS



The Woodward, cop-
ıer wire fastenings to
ıold the limb, **$3.25**
ıer hundred.

TRANSPLANTING TROWELS

A perfect trowel for making small, deep
ıoles for transplanting and putting in
ıulbs; solid steel, strong and serviceable.
. P. 1 lb.
in. long. Each **$0.25**
in. long. Each..... **.30**

STEEL TROWELS

D. S. T. Steel with
rop shank.
ach..... **$1.10**
S. S. T. Steel with straight shank.
ach **$1.00**
No. 809—All steel garden trowel.
ach..... **.40**
lo. 6—Light steel garden trowel.
ach..... **.15**

EXCELSIOR WEEDER

5 teeth, very handy.
Each..... **$0.25**

SARGENT WEEDER

Malleable iron with
ood handle, has 5
eeth like a claw.
ach..... **$0.60**

GEM GARDEN FORK

Steel, 3 teeth.
Each..... **$0.70**

HAVIL'S LAWN WEEDER

A very handy tool for
dding the lawn of
eeds.
ach..... **$0.60**

PERFECTION LAWN WEEDER

Weeder and rake com-
bined.
Each..... **$0.50**

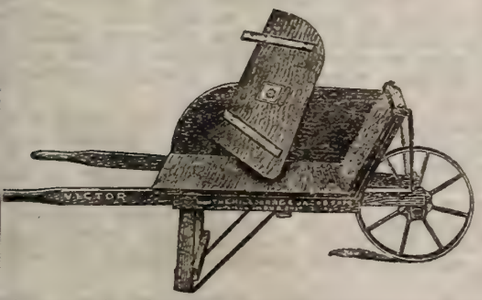
BUDDING AND PRUNING KNIVES

Various makes, ranging from **75c** to
2.50 each.

ORANGE CLIPPERS

'iss make. Each..... **$1.50**

GARDEN WHEELBARROW



A superior barrow, handsomely painted
ıd striped; iron leg braces, bolted, not
ırewed on, run under the legs,forming a
ıoe to slide on, avoiding racking the bar-
ıw; iron bands shrunk on hubs.
ach..... **$10.50**

PRUNING SHEARS

We carry all kinds and sizes, ranging from
$1.35 to $5.00 each.
Ladies size, nickle plated. Each.... **$2.25**

SEGMENT CORN PLANTER

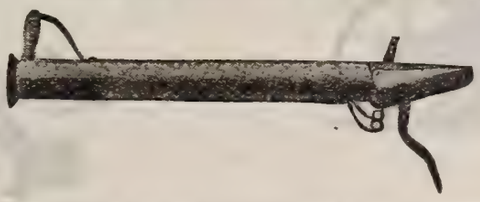
Automatic slide type. Can be used also for planting beans. Pumpkin seeds may also be planted by operator dropping seed into hole in spout. A popular planter that has been well introduced and has given universally good satisfaction. Weight 5 lbs.
Each..... **$2.75**

HAND POTATO PLANTER

The Original Hand Potato Planter and the Most Popular One on the Market Today

The jaws or blades are formed from bright steel especially rolled for this work, the two blades are joined, plants in any sort of soil, sod, new ground or stony land.
Each..... **$1.75**

TUBULAR POTATO PLANTER

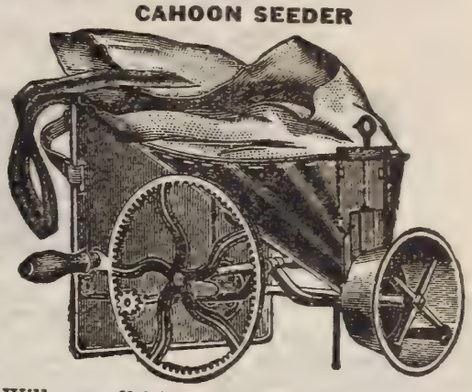


Has a galvanized iron taper conveying tube, largest at the bottom to which is riveted a bright steel jaw, carrying a step or rest for the foot to force the beak into the soil. The upper end of the tube has a wide funnel to receive the seed, and a well-braced, comfortable handle by which the planter is carried. For the man who likes a "tubular" potato planter this will prove a most efficient tool. Weight 6 lbs.
Each..... **$2.50**

THE "CYCLONE" SEED SOWER

has won for itself first place among all kinds of Hand Seed Sowers. It has proven in thousands of instances that it is the most accurate, most convenient to operate and most economical machine for sowing all farm seed that can be sown broadcast. It runs easily and will distribute any desired quantity of seed per acre. Each..... **$3.75**

CAHOON SEEDER

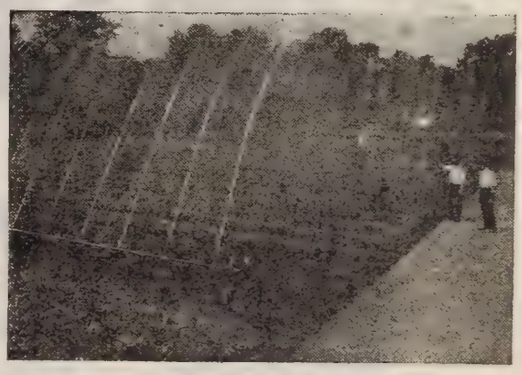


Will sow all kinds of grass and grain seeds from 4 to 8 acres per hour at a common walking gait. Heavy seeds, such as wheat, it will throw 40 feet (20 feet each side of the operator); lighter seeds, of course, will not be thrown so far. Weight 8 pounds.
Price..... **$6.50**

MASTER'S PLANT SETTER

Is a practical tool for transplanting cabbage, tomatoes, tobacco, sweet potatoes, cauliflower, peppers, egg plant, strawberries and all similar plants. Each plant is set, watered and covered in one operation. There is no stooping or bending over, just straight ahead easy, pleasant work. All of the hard, tedious labor of hand setting is done away with. One man will set more plants than three men can do by hand and do it better and easier. It does perfect work and every plant will grow.
Each..... **$6.75**

THE SKINNER SYSTEM OF IRRIGATION



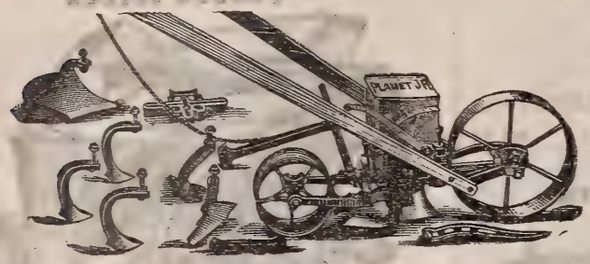
Water Your Garden This Way.—No more dry weather worries. Turn a valve and have rain when you want it. Beat your neighbor for early vegetables as well as quality. **Skinner System** special portable irrigation lines keep the soil soft and porous; reduce cultivation; make gardening a real pleasure. An exact reproduction of the big truck grower's system. Waters a strip 50 feet wide and the length of the line at 30 pounds pressure.

Lines of heavily galvanized pipe, equipped every three feet with patent brass nozzles that break the water into the fine spray that makes the crops grow like magic. Roller bearing supports for the line, flushing valve, turning union all included. Does not require a plumber. **Any man** with a monkey wrench can put up a line in a few moments. Attaches to inch hose or underground pipe. Can be supported on pipe any size, ¾-inch to 1¼-inch. Complete directions with each line. Lines from 30 to 130 feet long can be fed through ¾inch hose; lines from 130 to 200 feet long fed by 1-inch hose.

50-ft. line, **$27.50;** 100-ft. lengths, **$49.50.**

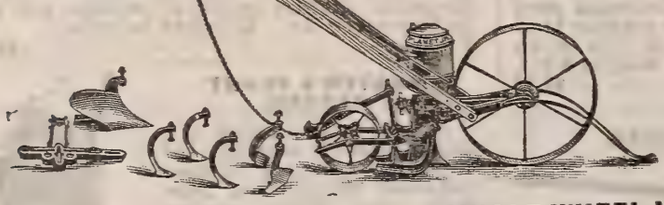
"PLANET JR." FARM AND GARDEN TOOLS

Send for "Planet Jr." Catalogue



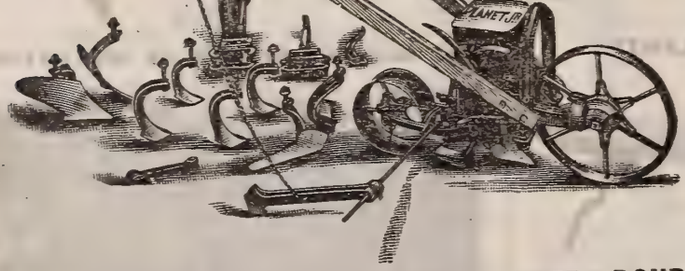
NO. 4 COMBINED SEED DRILL, SINGLE WHEEL HOE CULTIVATOR AND PLOW

This is the most popular combined tool made. It combines in a single implement, a first-class hill-dropping seeder, a single wheel hoe or weeder, a cultivator and a plow. As a wheel hoe it is identical with the "Planet Jr." No. 17 Single Wheel Hoe, the very best machine on the market. Price complete $25.50. As seeder only $20.50.



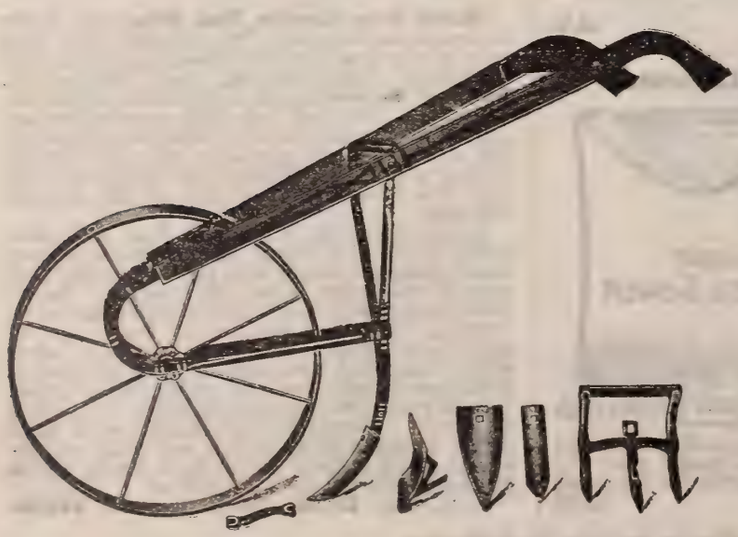
NO. 6 HILL AND DRILL SEEDER AND SINGLE WHEEL HOE

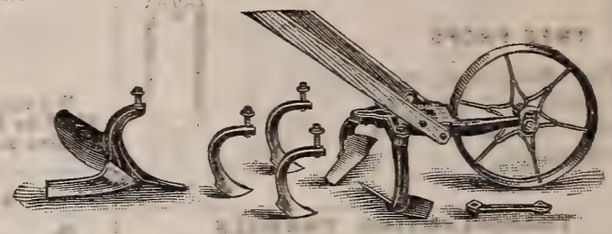
This seeder is the latest and most perfect development of the hand seed drill. It sows evenly in drills and also drops in hills at 4, 6, 8, 12 and 24 inches apart. It is thrown out of gear instantly by moving a convenient lever, or the flow of seed is stopped by pushing down feed rod. No time is lost, no seed is wasted. It is quickly set to sow the different kinds of seeds, in the exact thickness required. The accurate hill-dropping drill, which gives a regular stand of plants with the least seed, saves its cost over and over again in seed alone. Price complete, $.3175; as a drill only, $27.50.



NO. 25 COMBINED HILL AND DRILL SEEDER, DOUBLE WHEEL HOE, CULTIVATOR AND PLOW

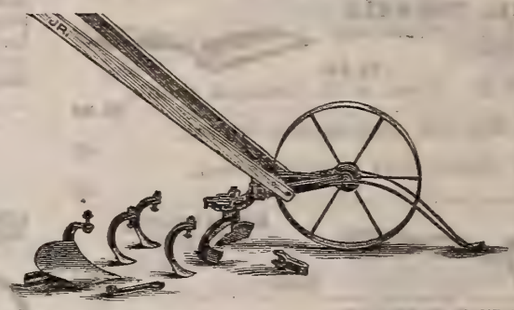
This combined machine is intended for gardeners who have a large enough acreage in crops for a double wheel hoe to be used to good advantage, and prefer not to buy separate machines. As a wheel hoe it is identical with the "Planet Jr." No. 12 Double Wheel Hoe, the very best machine on the market. Price $28.50.





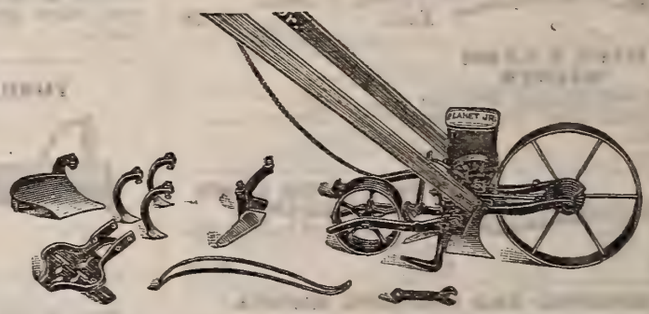
NO. 17 SINGLE WHEEL HOE, CULTIVATOR AND PLOW

For easy gardening, and at the same time clean and perfect garaening, nothing is quite the equal of this No. 17 Wheel Hoe. It is suited to all kinds of garden cultivation and all garden crops. The No. 17 has a pair of 6 inch hoes, a plow, and a set of cultivator teeth, an outfit sufficient for most garden work. Price, $12.25. No. 16, with a pair of rake and leaf-lifters in addition to the above equipment. Price, $14.25. No. 17½, with hoes, cultivator teeth and leaf-lifter. Price, $10.50. No. 18, with hoes only. Price $8.75. The above have high wheels.



NO. 36 SINGLE WHEEL HOE CULTIVATOR

This machine is the heaviest of all the wheel hoes in the Planet Jr. line. It has a large wheel which makes it easy to operate. Especially adapted to heavy soils. Price $14.85. Drill attachment for No. 36 $21.50.



NO. 28 COMBINED HILL AND DRILL SEEDER, SINGLE WHEEL HOE

This machine is the most complete tool for heavy work. It has a large hopper box the most improved index. The method of dropping the seed is the latest. The operator can see the seed drop at all times. Price complete $31.75, as a drill only $28.00

SUPERIOR CULTIVATORS

The illustration at the left shows the No. 2 Superior.

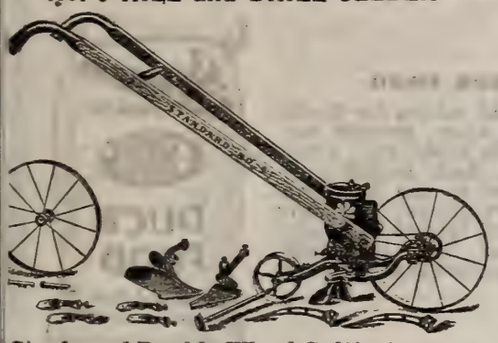
The **Superior No. 4** is constructed entirely of the best grade of steel and malleable, except the wood cross bar handle. The handles can be readily raised or lowered to suit the operator. The draft can easily be changed to suit the different kinds of soil, making the plow easy to operate. This plow is fully equipped with shovel, calf-tongue, mouldboard, wrench, cultivator and weeder. Price $6.00.

No. 2 Superior Garden Plow as shown has two bent wood handles and is drafted and designed mechanically correct throughout, making it the neatest and lightest running plow on the market. The handles can be readily raised or lowered to suit the operator. The plow is so constructed that the draft can be easily changed to suit different soils, making it very popular in all localities. It is fully equipped with shovel, calf-tongue, mouldboard, wrench, cultivator and weeder. Height of wheel 24 inches. Price $5.50.

The **Superior No. 5** is constructed entirely of high grade grade steel and malleable iron. The handles can be readily raised or lowered to suit the operator. The draft can be changed in order to get the best results in different soils. This is a great feature and has added much to the popularity of the Superior plow. Fully equipped with shovel, calf-tongue, wrench, mouldboard, weeder and cultivator. Height of wheel 24 in. Price $7.0

"STANDARD" GARDEN TOOLS

No. 9 HILL and DRILL SEEDER



Single and Double Wheel Cultivator, com-
ete with equipment shown, four shovels,
ıe pair hoes, one pair diamonds, all oil-
mpered and finely polished, two leaf guards
ıd wrench.
The **No. 9** combination fills all the needs
the gardener or farmer who has not suffi-
ent work to justify buying separate imple-
ents. It is easily changed from a double
a single wheel cultivator. The seeder not
ıly delivers seed in drills but by shifting
ıe part only, without the use of tools, it
ill drop in hills 4, 6, 8, 12 and 24 inches
›art. The index is in plain view and very
sily adjusted with a brass thumb screw to
ve the required amount of seed. To cut
f the flow of seed entirely at the ends of
e rows or in moving from one field to
ıother, pull out the seed slide just past the
ıge marks where it will latch; by pressing
;htly to the right a spring will pull it back
position without in any manner changing
e adjustment. A stiff Russian bristle is
ed in the seed brush which will feed a
›sitive regular flow of seed, the brush being
sed in at the bottom of the hopper to pre-
nt unnecessary agitation of the seed and
ear on the brush. A special shape shoe is
ovided, which is nicely polished and will
›en up a clean furrow, and is adjustable in
›pth up to two inches. This outfit cannot
recommended too highly.
Directions with each machine show how
set up and operate. Weight crated, about
pounds. Price each, **$19.00.**

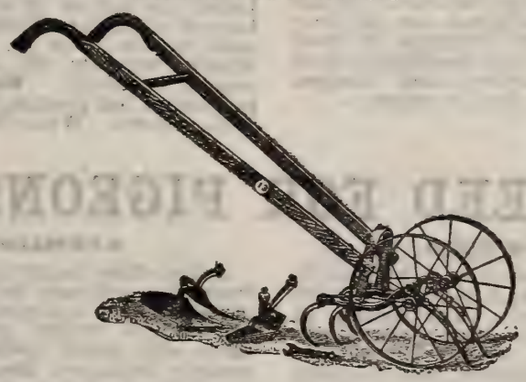
No. 12 HILL and DRILL SEEDER, Single Cultivator

With three steel shovels, one pair steel
›es, one special diamond, all oil tempered
ıd polished, one leaf guard.
This combination is of superior quality in
ery respect. The seeder will plant seed in
lls 4, 6, 8, 12 and 24 inches part or drill in
continuous row. The hill spacer is very
nple, being made of one piece—has no
tra parts to get lost. Seeder is changed
›m hill dropping to drilling by slightly
oving one part only. It is only necessary
move one bolt to change from a seeder
a cultivator.
The **No. 12** as a Seeder has less parts than
ıy similar tool made. The seed is fed
rough the plate by a rotary brush which
ves a constant steady flow without injury
the seed. To cut off the flow of seed en-
›ely, pull the seed slide out as far as it will
me where it will latch; by pressing lightly
the right with foot or hand a spring will
ıll it back to position. The wheel is 16 in.
gh with tire 1½ inches wide. Weight
ated, about 45 lbs. Price each, **$17.00.**

No. 14 HILL and DRILL, SINGLE WHEEL SEEDER ONLY

Those having sufficient use for garden tools to buy separate machines for Seeding and Cultivating will find the **No. 14** an efficient tool; very strong yet neat and light. Will handle almost any kind of seed in drills, and by moving one part only, can be instantly made into superior Hill Dropper.
Weight crated, about 36 pounds. Price each, **$13.30.**

No. 13 SINGLE and DOUBLE WHEEL CULTIVATOR



With four shovels, one pair hoes, one pair diamonds, all oil tempered and finely polished.
Great care is taken in the grinding and polishing to insure tools that will scour and work perfectly in any soil. Wire wheels 16 inches high are used, which are adjustable up or down to gauge the depth attachments are to run. Weight crated, about 40 pounds. Price each, **$10.70.**

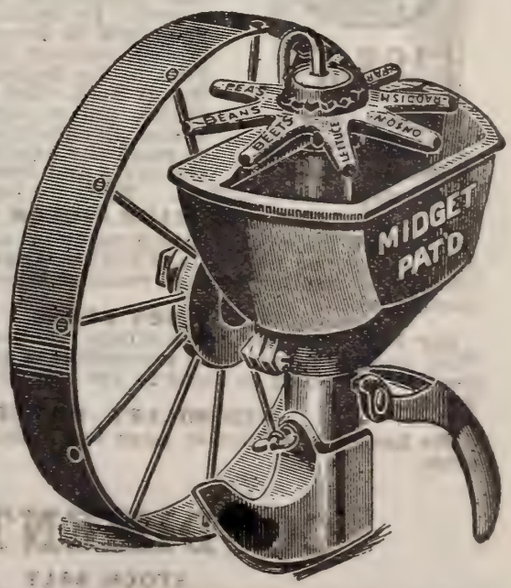
No. 22 SINGLE WHEEL CULTIVATOR

With three steel shovels, one pair steel hoes, one large diamond or mold-board, with landside of special design.
This is the Cultivator and attachments of the **No. 12** combination. It is one of our best tools for fine work. Can be used between rows, or with the extension bracket furnished the attachments can be set to one side and used on both sides of the row.
Weight crated, about 20 pounds. Price each, **$8.25.**

No. 20 SINGLE WHEEL CULTIVATOR

With one double-end steel shovel, one moldboard with landside, one combined rake and sweep, steel parts of attachments are oil tempered and finely polished. All are extra in quality and finish.
This is the handiest and most efficient Cultivator. By reason of the special patented shape of the shank or upright, the attachments always set at the same angle whether used for deep or shallow work. The bent oak handles may be instantly adjusted to suit the height of operator or to regulate depth for tools to run by loosening one wing nut—wrench not required.
The **No. 20** packs down entirely flat for shipping; it is necessary to remove and replace two bolts only to set up complete, and can be done in a minute. The **No. 20** is not equalled by any other cultivator, at anywhere near its price. It has our strongest guarantee. Weight crated, about 18 pounds. Price each, **$5.25.**

No. 1 MIDGET DRILL SEEDER



The **Midget** will handle accurately almost any kind of garden seed from the smallest up to peas and beans. The hopper holds one pint, yet it will drill out clean a 5c package of seed just as well as a hopper full.
The **Midget** attaches to Standard Cultivator **No. 20** with one bolt, in the same place and same manner as the cultivating tools. For use in close quarters, in beds or against a fence, or where it is not convenient to use the seeder attached to a cultivator frame, a short wood handle can be fitted to the Seeder. Price each, **$4.50.**

GERMAIN'S PREMIUM FOODS FOR POULTRY

PLEASE WRITE FOR PRICES ON FEEDS OF ALL KINDS

GERMAIN'S PREMIUM SCRATCH FOOD

Premium Scratch Food is an ideal grain mixture making a balanced ration. The ingredients are correctly balanced so as to meet conditions extending throughout the entire year, including the laying period, moulting period, etc. It affords a wide variety of wholesome ingredients, being made up of different grains, sunflower seed, bone, etc. It meets the requirements of the fowl and insures a liberal egg production. A good scratch feed insures one of always feeding correct rations. Prices on application.

TOP NOTCH or No. 2 Scratch Food, containing shell and grit. Excellent for those wanting a cheaper scratch food. Prices on application.

GERMAIN'S PREMIUM DEVELOPING FOOD

is an important factor to the poultryman. When the chicks are from six to eight weeks old they require a well balanced grain food. All the ingredients of Germain's Premium Developing Food have been carefully selected as regards size, adapt ability, etc. It insures a natural, even growth with uniform feathering. It can be fed at the age of four weeks and continued up till they are fattened for broilers or fryers, or used or breeding purposes. Our developing food is the best on the market, and insures satisfactory results. Write for prices.

GERMAIN'S DUCK FOOD

This mash is a balanced ration for ducks, as it contains fish meal, bran, ground barley, corn products, alfalfa meal, etc., which are all good, healthful, flesh building ingredients and can be fed to the ducklings as well as to the mature ducks. It is now in use by the largest duck raisers in Southern California and has been eminently successful ever since its introduction several years ago.

GERMAIN'S NEPTUNE BRAND PURE FISH MEAL

is meeting the demands for a high-quality protein feed. Due to the heavy demand for this already popular meal, we are enabled always to have on hand a fresh supply. It is made from Tuna exclusively. Consisting of dark meat, bone and skin, and some white meat. In order to remove the greater percentage of oil and moisture this portion is pressed and then passed through a vacuum drying apparatus which reduces the moisture to where there is absolutely no danger of the meal becoming lumpy or caking. From there it is milled and passed over a screening device, which removes all small bones and coarse material. **Neptune Fish Meal** is packed 100 pounds to the bag; 55% to 65% protein. Write for prices.

FEED FOR PIGEONS

GERMAIN'S PREMIUM PIGEON FOOD

The organism of squabs or pigeons is extremely delicate, and in feeding must be catered to as such. For success in the raising of these birds all efforts should be directed toward increasing the weight. This requires the selection of proper ingredients, each capable of upbuilding certain tissues and muscles, also promoting a healthy and rapid growth. In Germain's Premium Pigeon Food will be found ingredients of high protein content, such as Canadian Field Peas, or Soy Beans, Buckwheat, Vetches, Hemp Seed, Red Wheat, Kaffir Corn, Millet, and a number of other sound grains, all chosen because they are known to meet the needs of the pigeon. They are sweet and free from mould, so that every grain will be utilized. Write for prices.

GERMAIN'S CLUB PIGEON MIXTURE

Our Club Pigeon Mixture is made up according to a formula given us by the members of the Los Angeles Pigeon Club. This mixture is similar to our Premium Pigeon Food, only does not contain wheat.

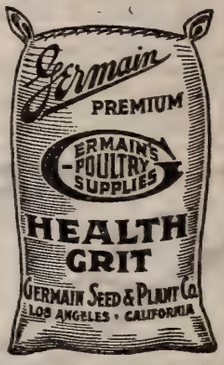
SOY BEANS

Soy Beans are now being extensively used for feeding pigeons. They contain a very high percentage of protein and you do not need to use nearly as many in the mixture as is needed of other protein foods.

RED MILLET—DOMESTIC

We have a select lot of large red millet seed at a reasonable price.

GERMAIN'S PREMIUM HEALTH GRIT



A first-class health grit. Differs greatly from the ordinary grits. The demands of the pigeon's organism exact certain ingredients which might not wholly agree with other fowls. Therefore Germain's Premium Health Grit (for pigeons) has been especially compounded and contains such foods as charcoal, salt, iron, grit, etc. It contains everything that the pigeon needs. It will keep your pigeons strong and vigorous, thus producing large and healthy squabs. If you are raising pigeons either fancy or for market, you cannot afford to neglect giving them Germain's Premium Health Grit. Keep it in your loft at all times. Write for prices.

RED WHEAT

Hard Red Wheat is the only kind that should be used for pigeon food. White soft wheat affects the bowels badly, and should not be used as a food for pigeons.

HEMP SEED

All pigeon men know the value of hemp seed. It is well not to feed it heavily but a little in the mixture fed daily or fed alone once or twice a week, keeps the plumage in good condition and is much appreciated by the birds.

KING PHILIP CORN

King Philip corn is the best corn for pigeons because it runs small, is hard, and easily handled by the birds.

MILO MAIZE

This small grain ranks in volume of use in feeds with the best varieties of corn.

CONDIMENTS FOR POULTRY AND STOCK

STOCK SALT

Take either rock salt or a salt lick and put it in a box or keg anywhere in the feed lot or shed where every animal can help itself, but where rain and weather won't waste it. Just see that a quantity of salt is where the stock can reach it any time, and then think no more about it.

Rock Salt, Red ..... $2.00 per 100 lbs.
Dairy Salt, 50-lb. bags ..... 2.00 per 100 lbs.

LESLIE'S SALT LICKS

This popular Salt is furnished in two ways, the plain brick, weighing 5 pounds, for the manger, and the wire loop for hanging. Indispensable for stock.

Plain Bricks ..... $0.20 each
Wire Bricks ..... .25 each

SALT BLOCKS

A very popular form of Salt for stock purposes. They are furnished in 50-pound blocks, both plain and medicated with sulphur.

Plain Blocks, **$2.25** per 100 lbs. Sulphur Blocks, **$2.50** per 100 lbs.

GROUND CHILI

	1 lb.	2 lbs.	100 lbs.
Fine Ground Chili	15 cents	25 cents	Write for Prices

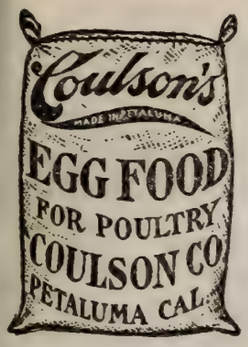
CAPSICUM (Red Pepper)

Capsicum is of value to those who make up their own formulas. It is included in wet mashes fed during the winter also. **60c lb.**

GROUND GINGER

A condiment used in the compounding of formulas. We always have some in stock. **50 cents per pound.**

COULSON'S POULTRY FOODS AND REMEDIES



Coulson's MADE IN PETALUMA EGG FOOD

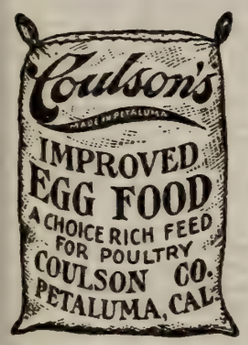
Coulson's Egg Food is manufactured in Petaluma, Cal., where there are more chickens than in any other equal area in the world. It is the best and only successful balanced ration for Dry Hopper Feeding; is best when kept before the fowls dry in the hopper all the time. It may also be fed wet as a morning mash, whether for Chickens, Pullets, Hens, Cockerels, Capons, Ducks, Turkeys or Geese. All the ingredients it contains are of the best, and it is therefore especially valuable as a food for breeding fowls and ducks. Prices on application.

Coulson's MADE IN PETALUMA GROWING CHICK FOOD

Coulson's Growing Chick Food is a balanced ration of cracked grains, seeds, mill feeds, meat and bone meals, carefully mixed according to a formula which has been compiled only after much experimenting.

It contains everything that a young chick requires up to three months old, and can be fed either from the commencement, or to gradually supersede Coulson's Special Dry Chick Food, say four to six weeks old.

It can be fed until the chickens are three months old, when you can commence feeding Coulson's Egg Food. Write for prices.

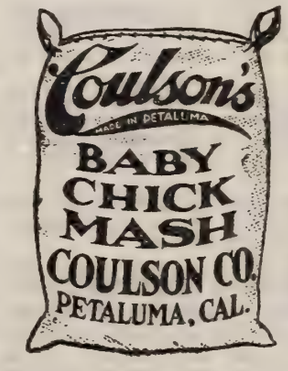


Coulson's MADE IN PETALUMA IMPROVED EGG FOOD

Coulson's Improved Egg Food is a highly concentrated food, containing a large percentage of protein and egg producing material, due to the quantity of meat meal, blood meal, bone meal, etc., which go toward making up its composition, and is especially suited for fowls during the molting season and winter.

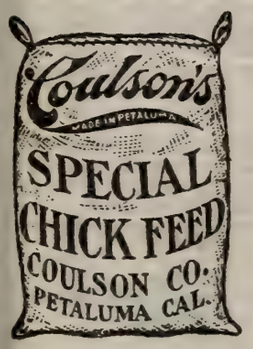
By feeding Coulson's Egg Food or Improved Egg Food you will keep your flock in a healthier condition; not only on account of the perfect balance of the ration, but also because their digestion is not overtaxed.

Price subject to change. Write for prices.



Coulson's MADE IN PETALUMA BABY CHICK MASH

This is a buttermilk mash especially adapted to baby chicks from the time they are hatched until they attain an age of about six weeks. The tender foods used in its manufacture are combined scientifically to supply every need of the baby chicks, and when a brood is placed on this food the percentage of loss is reduced to an absolute minimum. Write for prices.



Coulson's MADE IN PETALUMA SPECIAL CHICK FOOD

Coulson's Special Chick Food contains the ingredients that are best adapted to give nourishment to the growing chicks. Sweet, tender seeds, cracked grains, blown free from dust, cut oat meal, tiny pieces of cooked and dried meat, fine particles of fresh cut bone, charcoal, burnt bone, etc.

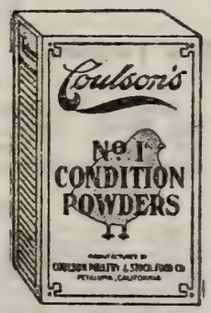
Each article is carefully selected with a view to its quality, soundness, and adaptability to the digestion of the young chick. It is a complete feed, requiring nothing in addition, except green feed, grit and water. Write for prices.

Coulson's MADE IN PETALUMA TURKEY FOOD

Turkeys are one of the most delicate varieties of fowls, and consequently their food has to be very carefully prepared in order to insure the best results and carry them over their most delicate period. Coulson's Turkey Food is made from a formula which is proven. It has stood the test for many years and is extensively used in the Imperial Valley where most of the California turkeys are raised and where the finest turkeys for the high-class trade are produced.

COULSON'S CONDITION POWDER

Coulson's No. 1 Condition Powder. Young chicks are very liable to disorders and treatment must be given at once to prevent or cure. No. 1 Condition Powder does for baby chicks, what the No. 3 does for the mature fowl. It is a very mild tonic, of digestive assistance and can be fed safely to the youngest of chicks. Use it in all cases to aid in building up the system and make it a point to always have some on hand. Price, 30c; 60c and $1.20.



COULSON'S ROUP REMEDY

For external and internal use. This is a reliable remedy for Roup, Canker or Colds. It is simply put in the drinking water, and the fowls take their medicine. Price, **50** cents.

COULSON'S No. 3 CONDITION POWDER

Is not claimed to be a cure-all by any means. It does contain, the very best articles to be found in the world for toning up and regulating the digestive and reproductive organs of the hens, enabling them to digest and assimilate a much greater percentage of their food than otherwise. It is especially useful in getting your flock in good condition before and through the molt, and thus giving you more eggs during the fall and winter when prices are high. Prices, 1¼ pound package **30** cents; 2¾ pound package **60** cents; 10 pound package, **$1.20**; pail, 25 pounds, **$3.50.**

COULSON'S LICE POWDER

Lice and mites exist in every locality. Fight them with an effective and reliable disinfectant. Coulson's Lice Powder is entirely harmless to the fowls, still it drives away all vermin. When shaken into the nest it not only kills all insects there, but prevents more from coming. The cost is small and it is easy to use. Price, **30c** per package.

SPRATT'S FOODS FOR POULTRY AND GAME

"High-grade Food for High-grade Birds"

SPRATT'S COOKED POULTRY AND GAME FOODS

Spratt's Poultry Food, No. 3 (for grown birds). A cooked food, baked and granulated. As an egg producer and conditioner of Show Birds this food has no equal. Used by breeders of high-grade poultry the world over. It is no exaggeration to say that a majority of the prize-winning birds at leading shows have been conditioned on it. See directions for mixing below.

Prices—100-pound bags, **$11.50**; 50-pound bags, **$5.90**; 25-pound bags, **$3.05**; 10-pound, **$1.40**; cartons, **40c.**

Spratt's Chick Meals, No. 5 and No. 12. (For the little chicks). These foods are composed of cereals, meat, vegetables and other nourishing ingredients essential to young chicks. By starting your chicks on Chick Meal you thereby reduce mortality among them to a minimum. Used and recommended very highly by leading poultry fanciers. Prices—100-pound bags, **$11.50**; 50-pound bags, **$5.90**; 25-pound bags **$3.05**; 10-pound bags, **$1.40**; cartons **40c.**

DIRECTIONS FOR MIXING SPRATT'S COOKED FOODS

Take four parts food to three parts hot water or milk. Mix well, and let stand until cold. Sprinkle over a little Spratt's Crissel and it is ready to feed. Feed cold always. The food, when ready for feeding, should be **crumbly moist.** Neither too wet nor too dry.

SPRATT'S CRISSEL

(Best meat). This preparation is very rich in protein and is a substitute for insect life and ant's eggs. It is used by many successful breeders of pheasants and poultry because of its quality and can be used in connection with Spratt's various poultry foods and pheasant meals by sprinkling a quantity of it over the food after it is mixed.

Prices, 100-lb. bags, **$11.50**; 50-lb. bags, **$5.90**; 25-lb. bags, **$3.05.**

POULTRY REMEDIES AND DISINFECTANTS

BARNES' CHICKEN REMEDIES

In offering this line of **Chicken Remedies** to the public, we do so with the satisfaction that you will reap the benefit of assiduous laboratory work of clinical investigation and research.

BARNES' CHICKEN-POX

Frequently chicken-pox is called roup, but there is a difference, in that the bird may have roup and not show the eruption at all, but we have found that most of the so-called roup was chicken-pox.

Barnes' Chicken-Pox Tablet dissolved in the drinking water will greatly alleviate the suffering, and if taken in time will control this disease, and in many cases this remedy has prevented the infection of the disease when given as a preventive. The directions in full on the label. In **35c** and **50c** sizes.

BARNES' COOTIE PASTE

One application, an amount the size of a pea, spread around the vent will kill the lice. One application every six months will keep the fowl free from vermin. In **25c** and **50c** sizes.

BARNES' ROUP EMBROCATION

A local application for Roup, Colds, Swelled Heads, Chicken-Pox, Canker, Sore Eyes, Pink Toes, Scaly Legs. Very effective. In **50c** size.

BARNES' WHITE DIARRHEA

Coccidosis

Diarrhea The Deadly Foe of Fowls

At a cost of from one-half to two cents per dozen Chicks, you may save from 95 to 100 per cent of your hatch from bowel troubles by commencing as soon as hatched to give a small amount in first water, given as directed. Even after the attack, 80 to 90 per cent recover, if given treatment at once. This remedy positively cures all forms of Diarrhea and Cholera in adult birds as well as in chicks. In **25c** and **50c** sizes.

BARNES' WORM EMULSION

The question has been asked, "Can a remedy be made that will dissolve the worms in the intestinal tract of the chicken without harm to the mucous membrane" We unhesitatingly say "NO," but, **Barnes' Worm Emulsion,** in conjunction with the juices in the digestive tract, will just as readily seize upon and digest—the worms when killed by our **Emulsion**—as they would any other meat that is fed to them, as the worms are only meat; and our **Emulsion** kills the ova or eggs of the worm as well as the worm.

Barnes' Worm Emulsion is prompt and thoroughly efficient, highly antiseptic and germicidal. Pints, **$1.00;** quarts, **$1.50;** gallons, **$3.00.**

BARNES' COLD AND ROUP REMEDY

This is a very deceiving disease, as it seems at first a very simple affection; if, however, the disease is allowed to run, it will soon develop into a very destructive and malignant form of disease that will make havoc in the flock.

This simple form of cold is very common, and when it makes its appearance, will become troublesome, unless treated at once. In **35c** and **50c** sizes.

B-K

Stops Roup, Canker, Scaly Legs, Bumblefoot, Chicken Pox, Black Head in Turkeys and other Contagious Poultry Diseases

It is now well known that all the common diseases of poultry belong to that class described as germ diseases. These diseases cause the big losses because of the ease with which they are spread. The spread of disease germs can be stopped and the germs destroyed by constant use of a powerful safe germicide as a spray or wash.

The use of our non-poisonous disinfectant and germicide—**B-K**—about your poultry yards means effective protection and consequently a greater profit from your efforts.

It may be used anywhere and so much water is used with **B-K** that it is very economical. Price, 4-oz. bottle, **40c;** 10-oz., **65c;** 30-oz., **$1.25;** 1 gal., **$3.25;** 5 gals., **$13.00.**

ARROW CARBOLINEUM

Formerly known as Avenarius Carbolineum
The only Radical Vermicide and Remedy Against Chicken Lice, Mites and Other Vermin in the Poultry House

There are quite a number of insect parasites that infest poultry houses, barns, etc., but very little is known about them and they are generally called lice.

A distinction however, should be drawn by dividing them in two classes. First, the kind living on the body of the fowl at all times the "body lice," and second, those that bother the fowls during the night only and crawl away in the morning to spend the day in the cracks and crevices of the infested building. These are called "mites."

These mites are pests and genuine blood suckers and vampires, and while the chicken can get rid of the body lice and keep them within limits by means of an occasional dusting or sand bath, they are absolutely at the mercy and helpless against the mites which drain their blood and kill them gradually.

It is therefore up to the poultry raiser to help his chickens, and the quicker he sets to work to clean out the mites, the better it is for the welfare of his birds and his pocketbook, as results will quickly show in the shape of healthy chickens and plenty of eggs.

There are a good many remedies, but most of them are only efficient for a short time as they will quickly evaporate and therefore must be frequently applied.

A single application of **Avenarius Carbolineum,** however, will be sufficient to destroy and eradicate mites from a poultry house for a whole year or more. It kills every louse or mite it touches, it can be used with a brush or a sprayer and will readily penetrate all cracks and crevices and thus reach the mites at close quarters.

It is neither volatile or explosive and will not increase the inflammability of wood.

We guarantee that one thorough application of Avenarius Carbolineum, either by brush or sprayer, to the interior walls of a hen-house or barn, after a previous cleaning, and no matter whether they consist of wood, tar paper or plastering, will exterminate the vermin in same for a whole year.

This means in old poultry houses already infected with vermin, of course "an ounce of prevention is worth a pound of cure," and therefore it is good policy to use **Avenarius Carbolineum** in new houses as well.

A poultry house painted with **Avenarius Carbolineum** inside as well as outside will be both vermin and rot-proof, and will look very neat if the nut-brown stain of the **Carbolineum** is trimmed off with a white color or paint on the window and door frames and cornices.

Quarts, **75c;** gallons, **$2.00;** 5 gallons, **$9.00**

CHOLERINE

A Wonderful Tonic and the Guaranteed Specific for Chicken Pox, Roup, Cholera, Limber Neck, White Diarrhoea and Worms.

Cholerine — The universal conditioner for the poultryman. Your fowls fed **Cholerine** will keep healthy and produce more eggs during the season. The mortality will be much less and the fowls will go through the moult in far better shape.

Baby Chicks started on **Cholerine** are very rugged, even growing flocks. They brood better, feed better, and have proven to be better flocks.

Cholerine is fed in a sour milk, or milk product, drink as first choice and moist mash as second choice, for laying and breeding fowls.

Baby Chicks are fed **Cholerine** in a milk drink or in the drinking water.

Cholerine eliminates indigestion, liver and kidney troubles in fowls, and is an excellent preventative of Pox, Roup, Worms and kindred diseases.

Cholerine is not a stimulant, but produces stimulating results by enabling fowls to obtain full nutriment from food consumed.

Prices: 6-oz. bottles, **35c;** pints, **65c;** gallons, **$2.50.**

CRUDE CARBOLIC ACID

This well known disinfectant and germicide is extensively used in whitewash and also in crude oil and distillate for spraying poultry buildings and roosts.

It is also largely used undiluted as a preservative of timber. Before setting posts for poultry yards in the ground it is well to dip the ends in Crude Carbolic Acid, which insures them for an indefinite period from rotting.

Prices, f. o. b. Los Angeles: Quart can **60** cents, 1 gallon can, **$1.25,** 5 gallon can **$5.00.**

DEVONSHIRE'S EARTH SALTS

It is a wonderful aid in preventing poor egg yield, dead-in-shell chicks, weakling chicks, infertile eggs, sterility in male birds, poor feathering, leg weakness, debility, leading to the attacks of lice, roup, diptheria, catarrh, diarrhoea and other diseases, which are always preceded by a debilitated condition, due to a shortage of Earth Salts, if the management is in other respects rational.

Prices: **60c** and **$1.25;** 10-pound package for **$3.25.**

HOLT'S DIGESTIVE TABLETS

For indigestion, sour croup, and water in crop of young chickens and turkeys. These are troubles which should be given immediate attention in order to get results. **Holt's Digestive Tablets** are meeting with splendid success and are recommended by many notable poultry authorities. A few cents spent for a remedy may mean a saving of many young fowls. Why take a chance. Keep this remedy on hand.

Price, **50c** and **$1.00.**

HOLT'S PREVENTION TABLETS FOR WHITE DIARRHOEA, 50c and $1.00.

KILEROUP

Cures Roup, Cholera, Swellhead, Chicken Pox, Indigestion, Bowel Trouble and General Debility in chickens, turkeys, pigeons, etc. Also cures those fatal diseases in little chicks, known as Sour Crop and Bowel Trouble, from which poultry raisers lose so many out of their hatches.

Prices, **30c, 60c** and **$1.20.**

KRESO DIP

A very effective and highly recommended disinfectant and germicide for chicken houses, barns, rabbit hutches, etc. Manufactured by Parke, Davis & Co., world known chemists.

Prices: Pints, **60c;** quarts, **$1.00;** gal., **$3.50.**

"OCULUM"

It is a scientific fact that the ovary of a hen contains eggs in the germ form far in excess of the number ever laid. The experts, by breeding, feeding and scientific mating, have produced an occasional hen that lays 200 eggs per year, but the average hen lays less than 75, not enough to pay for her keep. **"Oculum"** users who had no faith in any Egg-producing compound, state that **"Oculum"** is the egg-farmer's only salvation.

Deadly white diarrhoea, cholera, gapes, roup and sore head positively and permanently cured and prevented by this new wonderful, effective remedy.

In **50c, $1.00** and **$2.00** sizes.

REID'S POULTRY PASTE

Reid's Poultry Paste. The only remedy that kills ALL the lice and stays on long enough to get rid of young lice hatched from the eggs left behind. It is guaranteed to take the lice off and KEEP them off. A lice-covered hen won't lay. Stop this inroad on your profits by using Reid's Poultry Paste. It is applied direct to the bird and costs one cent a fowl. Price **25c** and **50c.**

DEVIL'S DUST

The well known chicken lice killer, **30c.**

SULPHUR CANDLES

Lugo Sulphur Candles for fumigating, each, **10c.**

Barnes Rabbit Remedies [150] are listed on page 152

LEE'S POULTRY SUPPLIES

LEE'S EGG MAKER

Lee's Egg Maker is largely meat food, granulated blood with tonic condiments. Largely used on big poultry ranches, especially California. The best and cheapest egg food in the world. Highly concentrated. To be fed mixed 7 per cent in other food.
Sizes, **50c, $1, $4.50, $16.00.**

EGG-O-HATCH

Egg-O-Hatch is a new preparation for applying to eggs during incubation. Supplies oxygen and absorbs carbonic acid gas. Strengthens the chick and weakens the shell. One size only, **50c.** Enough for 600 eggs.

EGG-O-LATUM

Egg-O-Latum is a new and valuable egg preserver. An antiseptic wax. Rubbed on eggs it keeps them fresh from spring and summer to following winter. Easy to fix a dozen a minute. Simply laid away in cool cellar. **50c** per jar. Enough for 600 eggs.

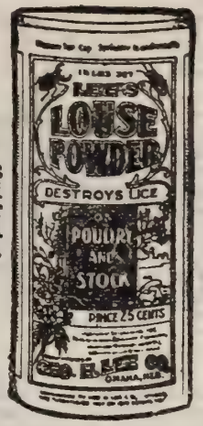
GERMOZONE

Germozone is the most popular medicine for poultry and pet stock and the most generally effective. For roup, colds, canker, chicken-pox, sore head, skin disease, bowel trouble, sores, wounds. **40c, 75c** and **$1.50.**

GERMOZONE TABLETS

Germozone Tablets—This is the same as the liquid, only in a more convenient form. When dissolved in water they act the same way as the **Germozone** liquid. In three sizes, **25c, 75c** and **$1.50.**

LEE'S LOUSE POWDER



Lee's Louse Powder is big value in both size and quality. 1¼-lb. pkg. for **30c;** 3-lb. **60c.** Round sprinkler top cartons. Very effective.

LEE'S LICE KILLER

Lee's Lice Killer has been for twenty years the poultryman's standby in keeping chickens and poultry house free from lice, mites and scaly-leg. A liquid, simply painted on roosts. Sizes, **65c, $1.00** and **$1.50.**

LEE'S WHITE DIARRHOEA REMEDY

This is a good medicine for any form of bowel complaint in chicks or fowls and for the dreaded white diarrhoea is the only really satisfactory treatment that has come to our notice. It does not replace Germozone for the prevention of these and other disorders, but is a medicine pure and simple and is valuable to have on hand when needed or where the simpler antiseptic use of Germozone does not produce the desired result. In **25c** and **50c** sizes.

FREE BOOKS—"Secrets of Success," "Care of Baby Chicks," "Pointers for Summer and Fall," furnished free for 1c each to cover postage. Circulars free.

PREMIUM INTESTINAL CLEANSER FOR POULTRY

Formula of A. M. Pollard, Former Extension Instructor in Poultry Husbandry at Delaware Agricultural College.

This Intestinal Cleanser is not an experiment, but was used at all of the North American Egg-Laying Competitions with the greatest success for the past five years, and at large commercial plants. The mortality at these competitions was the lowest of any in the country. Why?

Because of the use of this Cleanser.

Intestinal worms are the cause of most of the diseases of poultry. This Cleanser does not expel the worms, but causes them to be digested, thereby retaining in the birds all of the elements previously taken from the birds. In expelling these worms all of the elements are lost.

Directions: Mix thoroughly one pint of the Cleanser to a 12-quart pail of any dry mash or bran; moisten with **cold** water.

This amount is sufficient to feed 300 grown fowls.

For Small Flocks, mix one heaped teaspoonful of the Cleanser to one quart of mash food for ten hens. Use **cold** water for mixing.

Feed this amount twice a week for three weeks, and then once a month thereafter.

This positively will cleanse the intestinal tract of all kinds of worms and insure perfect health and more eggs.

Price, **35c** per lb.; 5 lbs. for **$1.50.**

ZENOLEUM

Zenoleum is a most effective disinfectant and dip for poultry. Will rid poultry of lice and mites and is a specific against roup and white diarrhoea. Zenoleum should be used to wash out incubators before putting in eggs to hatch. A ten per cent solution will be found very satisfactory. Zenoleum is a concentrated tar product. It mixes with hot or cold water—and requires no boiling or stirring. It is a positive germicide. Can be used very successfully in barns as well as in poultry houses. Zenoleum is sold under a money-back guarantee. Price, 8 oz., **35c;** quart, **75c;** ½ gallon, **$1.25;** gallon, **$2.00.**

ZENOLEUM LICE POWER, 30c

TALBOT'S LICE AND MITE POWDER

Talbot's Lice and Mite Powder should be sprinkled on the floor of coops to destroy odor and produce a sanitary condition, which will protect birds against roup, cholera and other diseases. If sprinkled on the bird will kill lice and mites. Price **25c, 50c** and **$1.**

"WATCH IT GET 'EM"

"Watch It Get 'EM" a three in one chicken lice destroyer. It will kill head lice, mites and body lice. Easily applied. Just dust a little on the chickens as they roost at night and you will soon be rid of profit destroying pests in the form of lice, mites, etc. Price, **25c; 50c** and **$1.00.**

DR. WHEELER'S SPECIFIC No. 1

No. 1—Flocks of poultry are quickly devastated by deadly and contagious diseases. To prevent the spread of or to cure disease is the aim of every true poultryman. **Dr. Wheeler's Specific No. 1** is the finest remedy obtainable for such diseases of poultry as colds, catarrh, chicken pox, canker, swell head and diphtheria.
Price, **25c, 50c** and **$1.00.**

DR. WHEELER'S SPECIFIC No. 2

No. 2 is compounded especially for Bronchial troubles, such as pneumonia and hard breathing, giving instant relief when properly applied. A bottle of this remedy on hand may save many fowls, as immediate treatment is necessary. Invest today.
Prices, **25c, 50c** and **$1.00.**

BUHACH

Buhach is an insect powder that will get rid of house flies, ants, bedbugs, fleas on dogs and cats, lice on chickens and rabbits—in fact it will drive out many insect pests. It is a necessity in every house, as it protects from loss and adds to the comfort and peace of the residents. In **25c** packages and **$1.50** per lb.

KOW-KURE

"THE GREAT COW MEDICINE"

Kow-Kure is one of the most liberally advertised of cow remedies and through its splendid reputation, gained by giving satisfaction for over a quarter century, it is an item that moves with a minimum of effort.

Kow-Kure has positive medicinal qualities that act upon the organs of production and reproduction, making them function properly. It is widely used as a preventive of disease, and is especially effective in removing such ailments as Scouring, Lost Appetite, Bunches or Red Water. For the treatment of Abortion, Barrenness, Retained Afterbirth or Milk Fever it has no equal. It's use upon "poor milkers" will usually increase the milk flow from 10 to 20 per cent.
Price, **70c** and **$1.40.**

Be sure and send for Latest Edition of The Home Cow Doctor—FREE.

BAG BALM

A Great Healing Ointment

Bag Balm is a most effective remedy for chalked bags, cow pox, chapping, bunches, inflammation, chafing, extreme soreness and tenderness. It is invaluable in relieving any udder trouble. Also used for cuts and bruises. Fever spots are cooled and inflammation is allayed almost immediately. It keeps little hurts from getting big and is a great aid around the calving period.
Price, **65c** per package.

AMERICAN HORSE TONIC

We recommend **American Horse Tonic** as a general improver for horses. Hundreds of users tell us that horses look better, feel better, act livelier, are full of snap and ginger when they are given it. Besides this, we recommend it as a worm expeller, for lost appetite, rough hair, coughs, inflammation of lungs and bowels, stoppage of water, recent founders, distemper, etc.
Price, **70c** per box.

HORSE COMFORT

We recommend **Horse Comfort** for all flesh wounds, wire cuts, galls and sores of long standing, for blood poison, proud flesh, scratches, mud fever, for snag wounds, sore shoulders, grease heel, malignant ulcers, fistula, poll evil, corns in horses, etc. We claim that **Horse Comfort** has won the right to the name—"The World's Greatest Healer." Price, **35c** and **65c** per bottle.

GRANGE GARGET CURE

We recommend **Grange Garget Cure** for that serious disorder so peculiar to cows, garget, or the hardening of the udder. Inexperienced people often mistake it for caked bag, bunches in bag, etc. Remember it is a separate disease, with its own peculiarities, causes and remedy. Twenty-five years use by dairymen and farmers proves the economy and value of using **Grange Garget Cure.** Price, **70c** per can (enough for 15 cases.)

CARBOLA—The Disinfecting Germ-Killing White Paint

Carbola saves time, money and labor—it paints and disinfects at one operation. It is a finely powdered mineral pigment combined with a germicide 20 times stronger than pure carbolic acid—but is neither poisonous nor caustic. Carbola makes everything clean, white and absolutely sanitary. It stays white and has no disagreeable odor. Use Carbola instead of whitewash on poultry houses (inside and out), dairies, outhouses, hog pens, etc. By disinfecting and painting at the same time Carbola reduces labor costs—the big expense item on the farm—and gives much better results than whitewash.

WILL NOT BLISTER, FLAKE OR PEEL OFF

Carbola can be put on with a brush or with a spraying machine. It will not blister, flake or peel off no matter how many coats are put on. Carbola can be applied to wood, brick, stone or cement, plaster board, tar paper, or over whitewash or oil paint surfaces.

By disinfecting and painting at the same time Carbola reduces labor costs—and it gives better results than ordinary whitewash.

Carbola should be used just as any other disinfectant is used. If directions are followed it will make the interior of buildings as white as snow, rid them of lice, mites, nits, fly eggs, etc., and helps prevent the germs of infectious diseases such as roup, canker, white diarrhoea, cholera, glanders and the many others that affect poultry and livestock—from getting a start and speading through flocks and herds.

The frequent use of Carbola is an insurance against the severe money losses that result from these diseases, and is an econominical and labor-saving way to comply with the sanitary requirements of health officers, milk companies, creameries, etc.

There are several varieties of lice that attack poultry. They subsist mainly on the feathers and are found on the hen's neck, under the wings and about the vent and when present in large numbers they cause the fowls much discomfort. A "lousy" bird is an unhealthy bird. Lice increase very rapidly and if a flock becomes badly infested it is usually necessary to dust the body of the bird with some lice powder. Carbola is excellent for this purpose. Dust the affected bird's body at least three times at intervals of about a week, in order to get the lice which hatch out after the first dustings. Sprinkle some of the Carbola in the hay in the nests and in the dust wallow.

The most troublesome of all external parasites on poultry is the common chicken mite. Mites multiply very rapidly and often cause serious losses before their presence is discovered. They sometimes become so numerous they kill some of the flock, and their presence always reduces egg production, and affects young chickens so they fail to make a normal growth. Other times the mites are not so numerous as to injure the hen, but prove deadly to the little chicks.

Prices, sample pkg., **35c;** 10-lb. pkg., **$1.50;** 50-lb. pkg., **$6.00.**

FOR USE IN POULTRY HOUSES

Paint the nests, roots and all interiors of chicken houses with Carbola. It will absolutely kill lice and mites and makes interiors cheerful and sanitary. There is nothing that contributes so greatly to the success of poultry raising as thorough cleanliness add sanitation. Lice and mites are sure to be present in dark, unsanitary quarters. Carbola will drive out these parasites and stop this unnecessary in-road on profits.

A BOON TO THE DAIRYMAN

Carbola is an efficient and economical aid to the dairyman. It keeps the stables clean and sanitary and kills fly eggs, prevents germs and disease from getting a start in the herd. Carbola can be sprinkled or sprayed onto cattle and brushed through the hair to kill lice. It can also be sprayed on the floor and in the manure drain. Used on the walls it will keep stables clean, sweet smelling and sanitary.

RABBIT FOODS AND REMEDIES

RAISE MORE RABBITS

The U. S. Government is looking to the breeders of small animals and birds to supply the deficiency of beef, mutton and pork, and as the rabbit is one that can be raised in small quarters with a minimum cost of feed, and very little care, it is an ideal animal to give more attention to than in the past years.

The rabbit industry on the coast is progressing with leaps and bounds, but there is room for many times the present output. The successful breeders state it is the coming business to supply the markets with meat of the most nutritious kind, the profits are good, and the demand excellent for fryers, broilers and mature stock for breeding purposes. In addition there is a ready sale for the pelts if properly attended to after they are taken off the carcass.

Some breeds are very desirable for meat purposes, as the young ones grow rapidly to broiler and fryer stage with a maximum of flesh. Others are suitable for the pelts to use in the fur industry, on account of the hair having good staying power after the skin is cured.

SALT SPOOLS

Salt is as of vital importance to the Rabbit as it is to all other animals. **Salt Spools** are a convenient form, which can be hung in the rabbit hutch. Price, **10c** each.

BARNES RABBIT REMEDIES

Barnes Anti-Diarrhoea. Diarrhoea should be curbed as quickly as noticed. Not only does this disease incur unsanitary conditions but is disagreeable for those working about the animals. Treatment is simple and there is no reason why a remedy should not be given, especially when of reasonable price besides being extremely effective. Barnes Anti-Diarrhoea will give satisfaction. Price, **35c, 50c** and **$1.00.**

Barnes Anti-Slobber. Slobbers is a disease which has baffled many rabbit breeders and many remedies have proved ineffective. Barnes Anti-Slobber was used on advanced cases during its manufacture until a perfected remedy resulted. The disease is characterized by a constant flow of saliva from the mouth, wetting the fur on the chest, jaw and lower down on the legs. Anti-Slobber will quickly relieve this and help place the rabbit in normal health again. Prices, **35c, 50c** and **$1.00.**

Barnes Liver Tablets. This remedy is used in cases of diseased liver, constipation, pot belly, etc. When the rabbit appears lifeless and lacks energy it is doubtlessly caused directly from a disordered liver. Barnes Liver Tablets will relieve such conditions. Price, **50c.**

Barnes' Anti-Kanker Remedy	35c, 50c and $1.00
Barnes' Anti-Pot Belly	50c
Barnes' Anti-Snuffle Remedy	35c, 50c and $1.00
Barnes Cold Specific	35c, 50c and 1.00
Barnes' Digestive Remedy	25c and 50c
Barnes' Hock-O-Line	25c
Barnes' Protonic	35c, 50c and 1.00
Barnes' Reconstructive Remedy	50c
Barnes' Syringes	75c
Barnes Tonic Powder	35c, 50c and 1.00
Barnes' Vent Ointment	50c

CALDWELL'S SUPREME RABBIT REMEDIES

Caldwell's Condition Powder. Prepared by Caldwell Brothers, old and successful breeders of fancy and utility rabbits. This powder promotes health and assists greatly in fattening because it aids digestion and assimilation so that each animal obtains more nutrition from all food eaten. Used by practical breeders. Price **50c** and **75c.**

Caldwell's Ear Canker Remedy. Especially compounded for the treatment of ear canker in rabbits. Price **50c.**

Caldwell's Slobber Remedy. Another remedy for slobbers which has been found successful—used extensively and recommended by leading breeders. Price **50c.**

Caldwell's Buck Tonic	$0.75
Caldwell's Diarrhoea Remedy	.50
Caldwell's Eye Remedy	.50
Caldwell's Rabbit Tonic	.50
Caldwell's Snuffle Remedy, Liquid	.50
Caldwell's Sore Hock Remedy	.50
Caldwell's Vent Remedy	.50

GILMORE'S RABBIT REMEDIES

Breeding Tonic, each	$0.50
Liver Tablets, each	.35
Cold in Eye Remedy, each	.35
Diarrhoea Remedy, each	.50
Slobber Remedy, each	.50
Ear Canker Remedy, each	.50
Boil Tonic, each	.50
Rabbit Tonic, each	.50
Young's Tanning Compound, each	.60
Young's Tanning Compound, each	1.20
Cold in Head, each	.50
Mash Formulas, each	.25
Germicide Powder, each	.50
Rabbit and Cavy Regulator, each	1.15
Rabbit Antiseptic, for Snuffles	1.00

QUEEN INCUBATORS

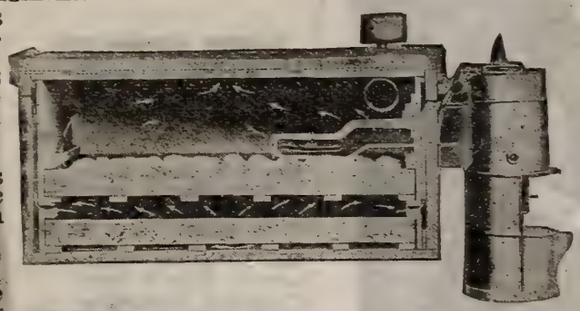
SEND FOR QUEEN INCUBATOR CATALOG

For fifteen years Queen Incubators have been regarded by poultrymen as the high-grade moderate-priced line of America. In the Queen, you have the very best incubator that could possibly be built.

Don't buy any incubator until you check up specifications very carefully and compare them with the Queen. Still better, look over the Queen at some dealer's store, and then compare Queen specifications with those of any incubator on the market. We leave it to your own eyes and judgment.

The arrows show the direction of the air currents through the Queen, when all the ventilators are open.

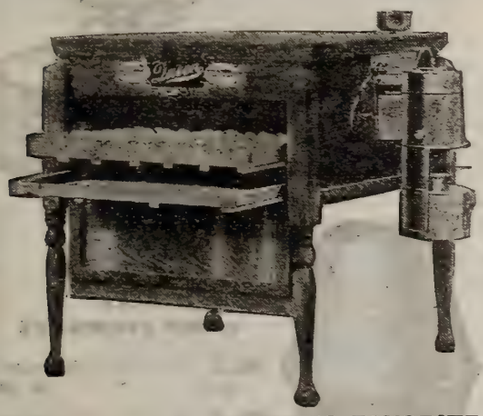
This system is wholly automatic and accurate in its performance. Upon opening the top ventilator you increase the movement of air through the entire machine, so that any desired degree of ventilation can be had at the will of the operator.



THE BABY QUEEN

No. 1—85-Egg Capacity
Each, $32.00

Floor space, including lamp, 23x28 inches.
Egg tray, 16½x18½ in.
Shipping weight 80 lbs.
Just the right size for those who keep only a few chickens, or for the fancier to use for small select hatches.



THE BEGINNER'S QUEEN

No. 2—135-Egg Capacity
Each, $46.00

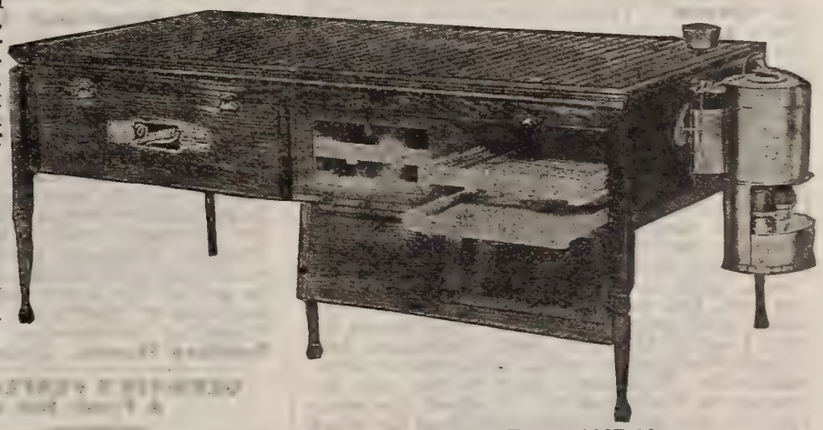
Floor space, including lamp, 28½x32 in.
Egg tray, 21x24 in.
Shipping weight, 95 lbs.
The size meets the requirements of the small poultry raiser and farmer, which explains its enormous sale. It only requires the output for a few days of a small flock of layers to fill it. A mighty good machine for raising a small flock.

THE MONEY MAKING QUEEN

No. 5—400-Egg Capacity, Each, $83.00

Floor space, including lamp.....34½x63 inches
Three egg trays.....16½x30 inches
Shipping weight.....185 pounds

For broiler farms and people who go in strong for chickens, this size is a general favorite. It produces big hatches of the right kind of chicks.



FARMER'S FAVORITE QUEEN
(But Thousands are Sold in Towns)

No. 3—180-Egg Capacity, Each, $55.00

Floor space, including lamp.....30½x35½ inches
Egg tray.....24 x36 inches
Shipping weight.....105 pounds

Just a good average size, not too small for the larger poultry raiser, nor too big for the small one.

No. 55—1500-Egg Capacity

Floor space, including lamp.....72x120 inches

No. 65—2000-Egg Capacity

Floor space, including lamp.....94x120 inches

Write for Prices

THE "DUCK" QUEEN

No. 4—275-Egg Capacity, Each, $69.00

Floor space, including lamp.....34½x45½ inches
Two egg trays.....16½x30 inches
Shipping weight.....142 pounds

So many of our customers are buying this size to use for hatching ducks, that we call it the "Duck" machine. However, it is just as good a chicken hatcher as a duck hatcher, and is used by many big poultrymen.

No. 25—600-Egg Capacity, Each, $127.00

Florr space, including lamp.....34½x81 inches
Four egg trays.....16½x30 inches
Shipping weight.....248 pounds

No. 35—800-Egg Capacity, Each, $175.00

Floor space, including lamp.....34x120 inches

No. 45—1000-Egg Capacity, Each, $210.00

Floor space, including lamp.....48x120 inches

Built to hatch and satisfy the most critical. Just as simple to operate as any of the smaller models.

STYLE K QUEEN INCUBATORS

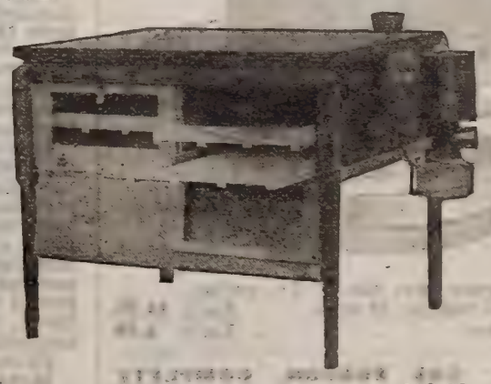
The Style K line of Incubators is not of the same high standard as our Queen line, in material nor workmanship, but they embody all the principles that have made the Queen line so successful and famous.

However, they are good substantial machines, built to sell at a lower price to people to whom price is an important consideration. The regulator is the same as the Queen, except of lighter construction, and has a three-inch brass wafer. Furnished only in the three sizes generally in demand in this type of construction.

No. 20—70-Egg Capacity
Each, $22.50

All Copper Tanks and Heaters

Floor space, including lamp, 23x28 inches.
Egg tray, 16½x18½ in.
Shipping weight, 46 lbs.
This little machine is a wonder for the money. It is not so thoroughly constructed, nor so completely equipped as the regular Queens, but it is made of California Redwood, has a copper heating system, and a special Queen Regulator. It will serve the need of those who want to get into the poultry business on a small scale economically.



No. 22—220-Egg Capacity, Each, $46.00
No. 21—130-Egg Capacity, Each, $35.50

BROODERS—INCUBATOR ACCESSORIES

THE "QUEEN" IS THE ONLY BROODER STOVE WITH AUTOMATIC CONTROL OF BOTH CHECK AND DRAFT

This damper regulates your check draft and the direct draft to your fire.

The **"Queen" Colony Brooder** is a new and improved design of Brooder Stove. It is made of highest quality iron castings that will wear and last indefinitely.

There are no drafts on the smoke pipe of the **"Queen."** The check rests on top of the Stove and opens outward when fire is too warm, thus giving a gentle inflow of air to retard the heat. While the opening of the draft to increase the fire is located at the top of the Stove, it opens into the fire at the base through an opening extending down the side to the bottom. This feeds the draft into the fire from underneath with no opening below the hover. As will be seen from the illustration, the check and the draft lids are cast together and operate together. Thus, when the fire is too hot, the wafer expands and closes the draft and opens the check, both at the same time. When it is too cool, the wafer contracts and closes the check and opens the draft. This keeps an even heat all the time, both night and day, in cold weather or warm, and does it automatically. You don't have to pay any attention to it whatsoever. Just set the regulator for the proper temperature at the start of the season—it will do the rest.

Gas-proof and Fire-proof. There is no possibility of gas escaping below the hover to harm the chicks, because all drafts are located above the hover and are so arranged that all gas and smoke must go out through the smoke pipe.

No. 1—600 Chick size **$27.75**
No. 2—1200 Chick size **34.25**

NO. 30 BURNER

No. 30 Burner, fits No. 3 (D) collar. Takes regular D wick ..... Each **$1.25**
No. 35 Burner ..... Each **0.90**

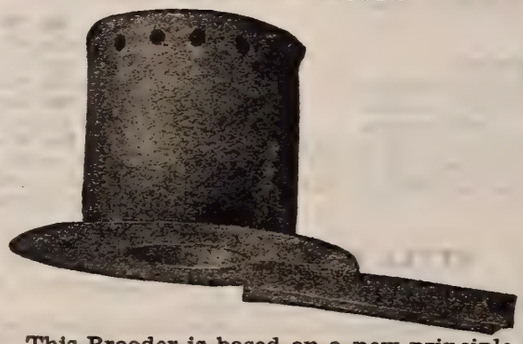
"MILLER" GAS BUNSON, COMPLETE

Complete with Taper, Tube and Cap. Price, **40c** each.

INTERNATIONAL SANITARY HOVER

The **International Sanitary Hovers** have stood every climatic test from Panama to Quebec. Practical poultrymen, state experiment stations, and poultry judges endorse it. You can raise chicks anywhere with **International Sanitary Hovers.** No specially constructed houses are necessary. There is no better place than in your regular hen houses. **Sanitary Hovers** are as practical for small back-yard poultry raiser as large poultry farms. They are warmest at the curtain—usable anywhere—ready for business wherever placed. No crowding or smothering of chicks, no kneeling in mud to get at the lamp, no cutting of holes or building of platforms. You want the best brooding device—you will get it in the **Sanitary Hovers.** Price, **$17.50** each.

GERMAIN'S PERFECTION BROODER
A Fresh Hot Air Brooder



This Brooder is based on a new principle and is by far the most perfect Brooder on the market. On account of its ventilating system the chicks are always furnished with clean fresh air heated to the proper temperature before reaching the hover proper. By the same system the foul air is discharged continuously, thus always leaving the chicks in a clear atmosphere.

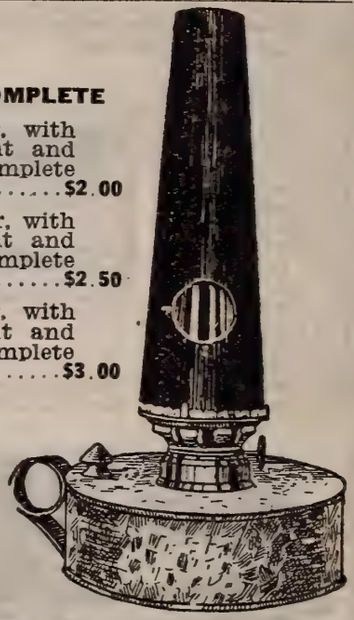
It can be used as either an indoor or outdoor Brooder. All parts are protected, so that rain cannot enter. On account of its construction the Brooder can be taken apart very easily so that cleaning is very simple. It is as nearly fireproof as is possible, all wood coming in contact with the drum being protected by asbestos. We strongly recommend it. Furnished complete with Lamp, Bowl, Chimney, Burner, Curtain and all necessary parts, having a 100-chick capacity.

Price, **$40.00** each.
Metal Parts only, complete **$10.00**
Blue Print, giving full instructions for construction, each **2.00**

LAMP FOUNTS

No. 2—6-inch Flat Top **$0.75**
No. 3—7-inch Flat Top ..... **.85**

LAMPS COMPLETE



No. 2 Burner, with 6-inch Fount and Chimney, complete Price each **$2.00**

No. 3 Burner, with 7-inch Fount and Chimney, complete Price each **$2.50**

No. 3 Burner, with 8-inch Fount and Chimney, complete Price each **$3.00**

BELL LAMP CHIMNEYS

No. 2—For No. 2 Burner, each **$0.50**

No. 3—For No. 3 Burner, each ..... **.60**

FLARING LAMP CHIMNEYS

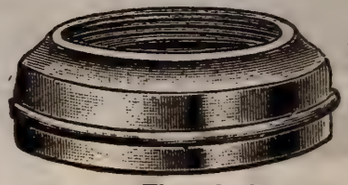
No. 1—For No. 1 Burner, each **$0.35**

No. 2—For No. 2 Burner, each ..... **.40**

No. 3—For No. 3 Burner, each ..... **.50**

Pipe Elbows, each **$0.60**
Pipe Caps, each ..... **.60**
Pipe, 3-inch diameter, each ..... **.50**
Roof Slants, each ..... **.75**

LAMP COLLARS



	Thread	Bottom	Each
No. 1 (A) Diameter,	7/8 in.	1 3/8 in.	**$0.10**
No. 2 (B) Diameter,	1 3/16 in.	1 3/4 in.	**.10**
No. 3 (D) Diameter,	1 3/4 in.	2 1/4 in.	**.15**

WICKS

Nos. 1, 2, or 3, each **5c**

Incubator Thermometers [154] are listed on page 159

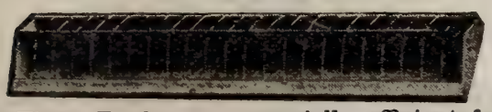
GERMAIN'S PERFECT FEEDERS AND FOUNTAINS

HEAVY GALVANIZED WARE

SINGLE CHICK FEEDERS

These Feeders are strongly constructed of galvanized iron and will not break or rust. The edges are rounded to prevent waste of food, yet make them easily cleaned. The wire front prevents the chicks from getting into the Feeder and ruining the food. We recommend these Feeders for the man who raises a few chicks in the back yard as well as for the commercial raiser. They will soon pay for themselves in the food they save. Prices—6-inch **25c**, 12-inch **35c**, 18-inch **45c**, 24-inch **65c**.

DOUBLE CHICK FEEDERS

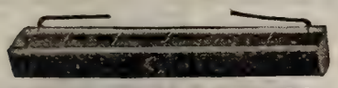


These Feeders are especially efficient for use in small quarters or where a large number of chicks are kept, as they save room as well as labor. The edges are round to make cleaning easy. The wire fronts protect the food from chicks and also prevent waste of food. These Feeders are constructed of galvanized ware and are strong and durable and will not rust or break. They come in three sizes, 12-inch, 18-inch and 24-inch. The prices are: **50c, 75c,** and **90c,** respectively.

PERFECT CHICK FEED TROUGHS WITH TRIANGLE TOP

These troughs are very convenient for feeding very small chicks as they can feed on both sides of the trough. They are made of galvanized iron and are strong and durable. It is impossible for chicks to stand in feed tray as they are prevented from so doing by a shield. These troughs are in three sizes, 6-inch, **20c;** 12-inch, **30c;** 18-inch, **40c.**

PERFECT RABBIT MANGER



These Mangers are constructed for feeding several rabbits at a time. Has wire divisions which prevents rabbits from contaminating food. Wire hooks are attached so Manger can be hung in hutch. Sanitary in every respect. Very convenient for quick feeding. Prices—6-inch **30c**, 12-inch **40c**, 18-inch **50c**, 24-inch **65c.**

SANITARY GRIT AND SHELL BOX

The use of this Grit and Shell Box will save all the grit, shell and charcoal that would ordinarily be scratched about, trampled upon and wasted, if fed from open dishes.

This Grit and Shell Box is stamped out of the best grade of galvanized iron. Cover is placed on a slant. Has three compartments, for grit, oyster shell and charcoal. For small flocks will serve as a dry food hopper. Two-compartment size, **75c;** three-compartment size, **$1.25.**

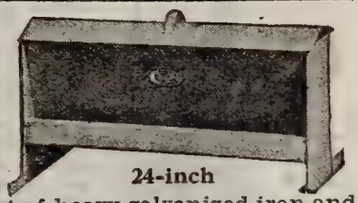
PERFECT WALL HOPPERS

This style of hopper is an exceptionally good seller because it prevents waste of feed and keeps it clean and free from dirt. Just enough is let down at a time to keep fresh food before birds all the time. They are made of galvanized iron and are therefore strong, durable, sanitary and easily cleaned. In two sizes, single and double. Price, Single **$1.50;** two compartment, **$1.25.**

PERFECT DOUBLE DRY MASH HOPPER

Has double compartment thus feeding several fowls at a time. Is large at top and small at bottom, feeding poultry only as they consume the mash. A great convenience for those having fairly large flocks. Made of heavy galvanized iron and is filled from the top; capacity about four gallons. Heavy galvanized wire handle for carrying. Comes in one size only. Price, **$1.75**

PERFECT DRY MASH HOPPERS



24-inch

A real food-saving and labor-saving device, hand made out of heavy galvanized iron and having a double compartment. The Hopper has a sliding cover, which protects the feed at all times from filth and moisture and the trough is high enough to prevent the fowls from scattering and wasting their feed. It is made especially for feeding dry mash such as Coulsons Egg Food, etc. Strong and durable. Made in 3 sizes, 18-inch, **$2.00;** 24-inch, **$2.50;** and 30-inch, **$3.00** each.

PERFECT BABY CHICK FOUNT

Safety first. The chicks can not get into the water when this convenient fount is used. Very easy access for the chicks. This style founts for baby chicks is probably more widely used than any other. It will last a life time and we keep four different sizes so that we can suit any size flock. Don't take chances but protect those tiny chicks by using this modern fount. Price of Founts—1-quart, **45c;** 2-quart, **60c;** 4-quart, **70c;** 6-quart, **90c.**

PERFECT PIGEON WALL FOUNTS

These Founts are so constructed that the bird cannot get into water and foul it. They are easy to handle and more sanitary than the ordinary floor fountain. The flat back makes them easy to hang up. A galvanized hood extends over the water trough and protects the water from dirt and filth. Can be used for poultry or baby chicks, but is especially useful for pigeons. Price, 1 qt., **50c;** ½ gal., **65c;** 1 gal., **80c.**

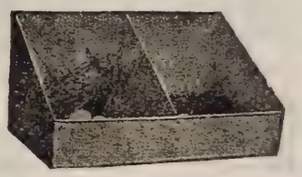
GERMAIN'S EGG TESTER

No. 3

For testing eggs for hatching; fits any ordinary size house lamp or the lamp furnished with the Cypher's and Queen Incubator. Price, **No. 2, 35c ea.; No. 3, 40c each.**

No. 2

NESTS



These Nests are made entirely of the very best of heavy galvanized iron. Very best of workmanship. All parts are double seamed, well riveted and all edges are wired with very heavy wire. Smoothly finished, no rough edges. Will last for generations. Metallic Nests are the only practical and sanitary method of nesting your poultry as metal nests are vermin proof. Lice or mites will not live in metal nests.

Single Compartment, each **$1.50**
Two Compartments, each **2.50**
Three Compartments, each **3.25**

McCANDLISH IMPROVED CHICK FEEDER

Made of heavy galvanized iron, with no rough edges. It cannot capsize or waste feed. The revolving rod prevents the chicks from perching upon it, making the Feeder absolutely sanitary. In 3 sizes, 12-inch, **40** cents; 20-inch, **60** cents; 30-inch, **85** cents.

EXHIBITION COOP WATER CUP

These Feeders and Cups designed especially for use in exhibition coops, are also used in conditioning coops and cockerel pens. Made of galvanized iron. Price, pint, **25c.**

STAR CHICK FEEDER AND FOUNTAIN

Just the Fountain you have been looking for. It feeds water, grain, grit, oyster shells, etc., and is the most Sanitary Fountain on the market, having a glass reservoir which is easily cleaned, and you can always see just how much water it contains without taking hold of it, and is so simple any child can fill it. Any size Mason glass jar fits it. We do not furnish the jars, as everybody has them on hand, thereby saving the extra expense. Price, **20c.**

FEEDERS AND FOUNTAINS—Earthenware and Automatic

FOR CHICKENS PIGEONS AND RABBITS

SPECIAL RABBIT JARS

Special Rabbit Jars are made with a flanged edge which prevents the rabbit from wasting its food. These Jars or Crocks are equally as handy in poultry yards. Being easily cleaned there is no chance for unsanitary conditions. Of heavy stoneware and so constructed as to keep right side up. They are especially good to feed rolled Barley, Bran, Oats, etc., in.

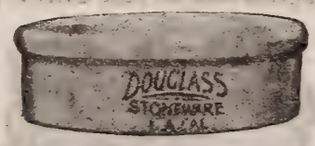
No. 1—**20c** each.....**$2.25** per dozen
No. 2—**25c** each..... **2.75** per dozen
No. 3—**30c** each..... **3.25** per dozen
No. 4—**40c** each..... **4.25** per dozen

OPEN CROCKS FOR RABBITS AND POULTRY

These Open Crocks or low butterjars are very convenient about the rabbit pens. A crock is absolutely sanitary and easy to keep bright and clean. We have several sizes and can promptly take care of your needs. Made of stoneware, glazed on both sides. Excellent for watering rabbits or poultry.

Prices: Pints, **15;** 1 quart, **20c;** 2 quarts, **30c;** 1 gallon, **40c** each.

SANITARY STONE CHICKEN FEEDERS



Just the thing for use in chicken pens. They can be kept nice and clean all the time and serve for feeding practically anything; perfectly sanitary. No chance for insect pests. Low and easy for the chickens to eat from and hard for them to tip over. Made of heavy stoneware so that where a little care is exercised they will last indefinitely. Come in two sizes. Prices: ½ gallon, **30c** each; 1 gallon, **40c** each.

SANITARY POULTRY FOUNTAIN

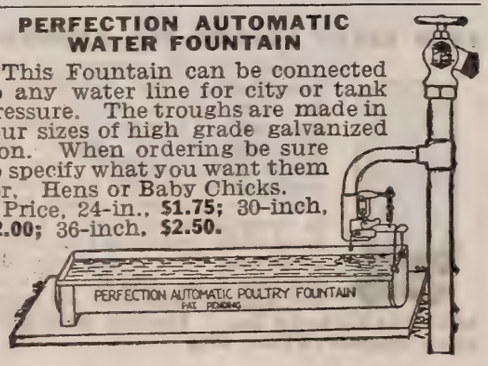
These are made of a heavy glazed stoneware, strong and durable. They are popular with poultrymen because they keep the water cool and refreshing, cannot in any case be upset by the fowl and are easy to keep perfectly clean.

Prices: 1 quart, **40c;** 2 quart, **50c;** 4 quart, **65c.**

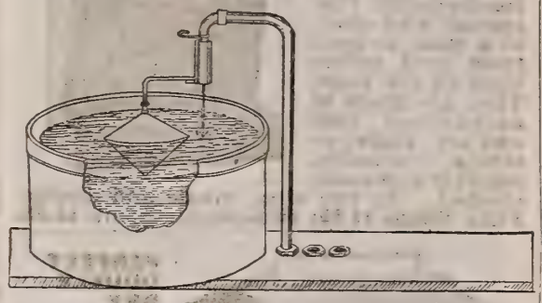
PERFECTION AUTOMATIC WATER FOUNTAIN

This Fountain can be connected to any water line for city or tank pressure. The troughs are made in four sizes of high grade galvanized iron. When ordering be sure to specify what you want them for, Hens or Baby Chicks.

Price, 24-in., **$1.75;** 30-inch, **$2.00;** 36-inch, **$2.50.**

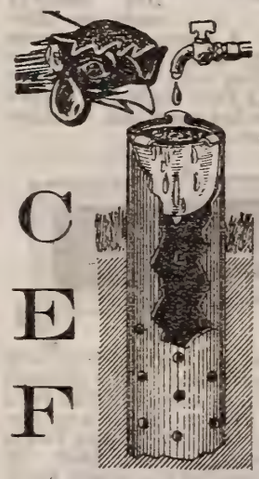


"Water Boy" Automatic Poultry Fountain



Attached like a faucet, the water fills the dish and shuts off the water automatically as shown by the picture. There is an adjustment on the float stem by which the water level may be raised or lowered in the dish. Don't carry water; your time is too valuable. With Metal Floats, **$1.35** each.

THE "C. E. F." FOUNTS ARE VERY DESIRABLE IN BROODER PENS



With these Founts the chicks at all times have absolutely fresh and clean water, which is a very important item in the raising of healthy, vigorous stock. They save lots of work every day by making unnecessary the daily chore of watering the chicks.

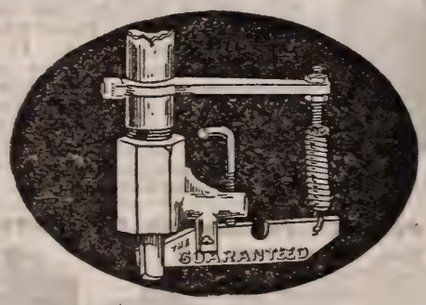
For your convenience, in ordering shipment via Parcel Post we show weight of each item.

Price, Fountain complete, **$1.25.**

Ask for Free circular.

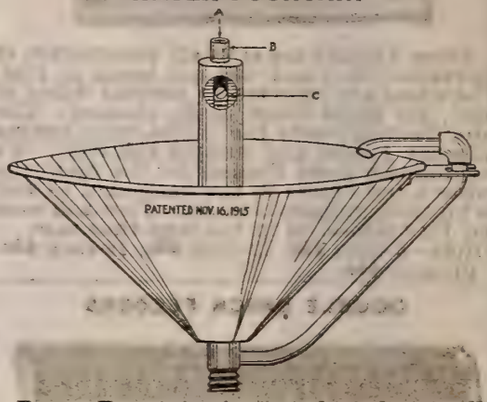
Article	Weight	Price
Metal Cup.....	2 oz.	35 cents
Drain Pipe.....	28 oz.	60 cents
Faucet.....	5 oz.	75 cents
Reducer.....	2 oz.	10 cents

THE "GUARANTEED" AUTOMATIC WATER FOUNTAIN



All the established and best features known to science are built for you in this Fountain. It serves you with an abundance of fresh clean water at all times. It fills your pans or crocks just as full as you want them and no more. It is equipped with a governing stem or screw that controls the flow of water. Also acts in the capacity of a lock when you are cleaning the water trough; or should you wish to abandon the use of the trough for an indefinite time it serves as a permanent cut-off. Price, **$1.75** each.

IMSCHWEILLER AUTOMATIC WATER FOUNTAIN



Every Fountain is tested and actually worked before it leaves the factory. It can be removed and easily cleaned. A child can operate them. Price, **$1.75** each.

BROOMS

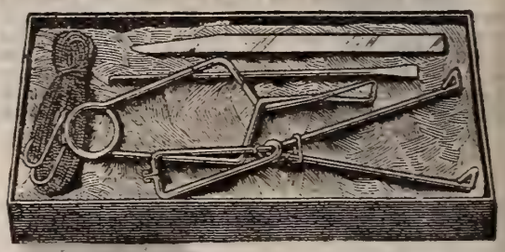
Bassine Brooms for cleaning poultry yards, etc. Each, **$1.75.**

PATENT FARMERS' CAPONIZING SET

Poultrymen can double their profits by caponizing their cockerels. The operation is simple and easy. Price **$4.00.**

Automatic Removers, $2.50

BEUOY CAPON SETS



Especially designed to simplify the operation of caponizing, so that the beginner can easily master it. We recommend it as the best low-priced set in popular use. Full printed directions with each set.

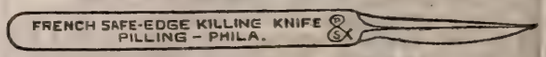
Price—In substantial wood cases....**$4.50**
Caponizing Set complete with Bow... **5.50**

FRENCH POULTRY KILLING KNIFE

Every poultry raiser should have one of these killing knives. To possess one will be one of the best investments you ever made.

Price, **50c** each, postpaid.

FRENCH SAFE-EDGE KILLING KNIFE



Price, **75c** each.

ANGULAR POULTRY KILLER

Price, **$1.00** each.

Incubator Thermometers [156] are to be found on page 159

MISCELLANEOUS ACCESSORIES—FENCING

ANDERSON EGG BOXES

Anderson Egg Boxes for shipping eggs for hatching. The Anderson Egg Box is made of strong corrugated paper, is light in weight and easily adjusted. Eggs can be shipped safely for thousands of miles in the Anderson box. Comes in the following sizes:

12 egg size for duck eggs	**40c;**	**$4.00** per doz.
15 egg size for hen eggs	**40c;**	**4.00** per doz.
30 egg size for hen eggs	**50c;**	**5.00** per doz.
50 egg size for hen eggs	**60c;**	**6.00** per doz.
100 egg size for hen eggs	**1.10c;**	**11.00** per doz.
12 egg size for turkey eggs	**45c;**	**4.50** per doz.

HUMPTY DUMPTY EGG CARRIER

Has been for years the most popular Egg Carrier on the market. It is the most convenient and cheapest obtainable; holds 12 dozen eggs, uses the same cardboard fillers as the ordinary egg cases, can be folded into very small space; weight 6 pounds. Price, complete with Fillers, **$1.25.**

MARKET EGG CARTONS

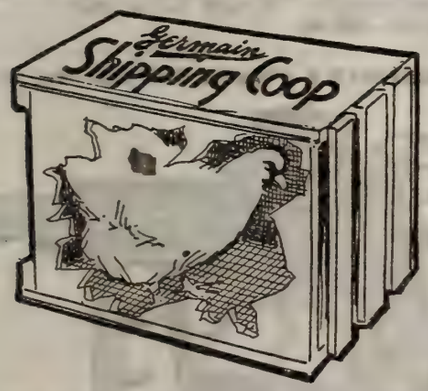
Suwanee 2x6 dozen egg size cartons are made of heavy cardboard, strong and compact. Blue inside, blue filler and printed "Selected Eggs." Price, 12 for **40c;** 25 for **75c;** 50 for **$1.50;** 100 for **$2.75;** 1000 for **$25.00.**

Ideal Egg Carton, 3x4, holds one doz. eggs. A very strong and convenient carton at a cheap price. 12 for **40c;** 100 for **$2.75;** 1000 for **$25.00.**

CHICK BOXES FOR SHIPPING BABY CHICKS

Our **Baby Chick Shipping Box,** like the egg boxes, are made of strong corrugated paper conveniently arranged in compartments to hold 25 chicks and come in from one to four compartments to hold 25, 50 and 100 chicks. Prices, 25 chick size, **45c; $4.50** per dozen.; 50 chick size, **70c; $7.00** per dozen; 100 chick size, **$1.00, $10.00** per dozen.

SHIPPING COOPS FOR FINE POULTRY



Light in Weight, Roomy, Strong and Durable

We manufacture these Coops and warrant them to be the lightest, strongest and most durable on the market.

No. 2, 12 inches wide, 18 inches long, 22 inches high; is suitable for single birds of any variety or a pair of Mediterraneans. Weight 10 pounds.

No. 4, 12 inches wide, 24 inches long, 24 inches high; is suitable for Asiatic male, American or Mediterranean pair, or small Mediterranean trio. Weight 12 pounds.

No. 6, 20 inches wide, 24 inches long, 24 inches high; is for pens of five birds of any variety. Weight 16 pounds.

Prices:—No. 2, **$1.00** each; No. 4, **$1.25** each; No. 6, **$1.50** each.

ATLAS EGG SEAL (Water Glass)

A superior solution of Silicate of Soda for sealing and preserving eggs. Price, 1 pint bottle, **40c;** 1 gallon, **$1.50.**

E-Z EGG PRESERVER

We are convinced that the **E-Z Egg Preserver** method is by far the best way to preserve eggs either for the home or the market. It is superior to cold storage, and very much cheaper, and much more convenient as you have the eggs always at hand when needed. It is very much better than any of the pickling methods such as "water glass," lime preservatives, etc. There are no barrels, nor crocks to contend with, you can preserve them in a basket, box, or egg case, and so simple that any child can do it.

We do not hesitate to guarantee every egg you preserve with **E-Z Egg Preserver,** guarantee them to keep for ten months in such a perfect state of preservation as to meet all the requirements of a fresh laid egg, provided the egg is strictly fresh and infertile when it is preserved. The whites beat up like fresh laid eggs. They boil, poach, and fry like a fresh egg, and best of all have none of the storage egg flavor. In **60c** and **$1.00** sizes.

NEST EGGS

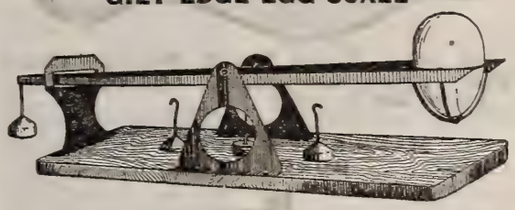
The Common China Glass Egg, indispensable for the chicken yard. 2 for **15c; 75c** per dozen.

NEST EGGS—MEDICATED

Keep your hens free from lice, healthy and contented. This means more eggs and more profits. The poultry raising industry in this country is a big thing, and as our nest eggs are used by this class, there is a tremendous demand for them.

Used the same as any other nest egg, but far superior, as it serves as a nest egg and a disinfectant also. Easy to apply and always at work. Almost an exact imitation of the real hen egg. **10c** each; **$1.00** per dozen.

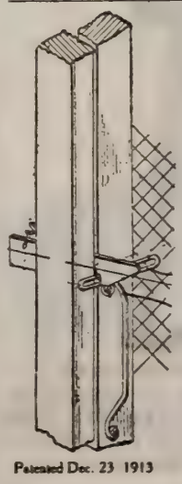
GILT EDGE EGG SCALE



Success of California producers has been the result of careful standardizing of their products. So it is with the egg producers; those who are making a success are those who are grading their eggs and selling them according to their weight value.

The new grading of the Egg Producers of California for the year 1917 are:—Standards, 22 ounces or more to the dozen and an average of 24 ounces to the dozen. No. 1 Pullets, 20 to 22 ounces to the dozen; No. 2 Pullets, 18 to 20 ounces to the dozen.

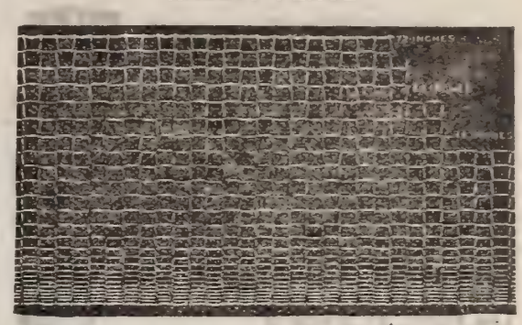
The **Gilt Edge Egg Scale** is the only Egg Scale made that will give you a correct grading within a range of weights from 17 to 30 ounces to the dozen. Price, **$2.00.**



THE CONRAD SAFETY GATE LATCH

Was designed especially for the needs of the poultry man. It is just the thing to keep the gates to your poultry pens securely latched, thus saving time and trouble when feeding or doing other work. (See accompanying picture). It is well made of nonrusting materials; is easily attached and easy to operate. You do not have to stop to latch gates and you can unlatch them with both hands full. Price, **35c** each.

IMPERIAL POULTRY AND RABBIT FENCE



The **Imperial Poultry Fence** is the strongest, handsomest, most durable and most sensible Poultry Fence now on the market. Made of No. 18 wire, No. 14 margins. Notice the very close spacing between line wires, which is shown by referring to illustration. This Fencing will turn the smallest chicken or anything else which happens to come in contact with it. It will stand erect with few posts, by reason of the sensible construction of the famous tie or lock. Rolls 165 feet or 10 rods long.

	Per Roll
3 ft. high Graduating Mesh	**$5.70**
4 ft. high Graduating Mesh	**6.50**
5 ft. high Graduating Mesh	**7.50**
6 ft. high Graduating Mesh	**8.35**

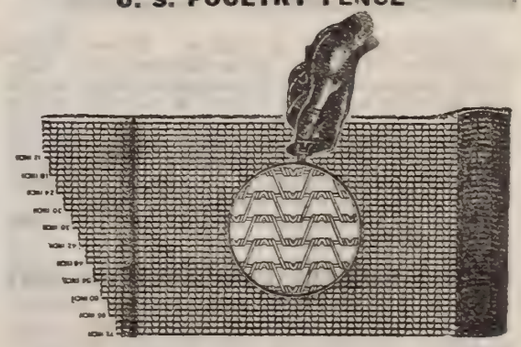
JERSEY POULTRY FENCING

It is galvanized after weaving, so it will not crack and rust at the twists. It is made of full-gauge, hard drawn steel wire, having great tensile strength, and heavily galvanized, insuring maximum length of life.

Our prices are as follows: Per roll of 150 ft.

	Per Roll
1 ft., 2-inch mesh	**$2.15**
1½ ft., 2-inch mesh	**3.10**
2 ft., 2-inch mesh	**3.95**
3 ft., 2-inch mesh	**5.35**
4 ft., 2-inch mesh	**7.15**
5 ft., 2-inch mesh	**8.95**
6 ft., 2-inch mesh	**10.70**
1 ft., 1-inch mesh	**4.95**
1½ ft., 1-inch mesh	**7.15**
2 ft., 1-inch mesh	**9.10**
3 ft., 1-inch mesh	**12.40**
4 ft., 1-inch mesh	**16.50**
5 ft., 1-inch mesh	**20.65**
6 ft., 1-inch mesh	**24.75**

U. S. POULTRY FENCE



The magnifying glass reveals greater evidence of strength and durability. You should examine the double reinforced hinge joint, which makes the Fence stiff and rigid, yet elastic.

The old style netting has only parallel margin wires on which it depends for tensile strength. We have these same margin wires and in addition all the other parallel wires.

Prices, Per Roll of 150 Feet

Width	12"	18"	24"	30"	36"
Mesh—					
2-inch	**$2.48**	**$3.56**	**$4.54**	**$5.42**	**$6.19**
1-inch	**4.95**	**7.12**	**9.08**	**10.83**	**12.38**

Width	42"	48"	60"	72"
Mesh—				
2-inch	**$7.22**	**$8.25**	**$10.32**	**$12.38**
1-inch	**14.44**	**16.50**	**20.63**	**24.75**

WIRE STAPLES

For tacking fencing. Per pound, **20c.**

Incubator Thermometers [157] are listed on page 159

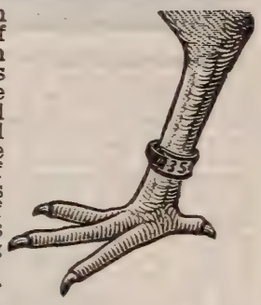
LEG BANDS AND FEED CUTTERS

CHALLENGE COLOROID BANDS

Very strong and durable, having our Ideal Fastening, which has proved so popular; three-eighths inch wide.

Made with large black numbers on white background, very easy to read; you don't have to catch the birds to read the figures. A decided innovation from the old-time poultry bands. **25c** per dozen; **$2.00** per 100.

CHAMPION ADJUSTABLE LEG BANDS



This is a well-known Leg Band. It is one of the oldest bands on the market and has met with an immense sale during several years past. It is well and durably made from one thin strip of aluminum, and is used by thousands of successful breeders and exhibitors. Being held by a double lock, it is impossible for them to come off. Made in one size only and adjustable to fit any size fowl. Prices, postpaid, **15c** for 12; **85** cents per **100.**

DOUBLE CLINCH LEG BANDS

The Double Clinch is one of the most popular flat bands on the market. It has an exceptionally strong fastening, consisting of two clinches which close down over the ends of the band in a way that makes it practically impossible for fowls to lose them off. These Bands are made in the same sizes as the Smith Sealed Leg Bands. In ordering always state size desired.

Prices, postpaid, **15c** for 12; **85c** per 100.

ECLIPSE POULTRY BANDS

A modern Band in colors. These Bands are made with extra large figures on a plain white background. The numbers are easily visible even when the fowl is moving about in the yard. The figures are protected by a thick, transparent cover (not simply glazed) making it extremely durable. The Bands are made of aluminum, consequently they are very strong and very light in weight.

Come in three sizes: Prices postpaid; **40c** for 12; **$2.50** per 100.

DOUBLE NUMBER BANDS FOR PIGEONS

These are identical with Eclipse Poultry Bands, only are made for pigeons and come in pairs. A broad, durable, aluminum Band.

Prices, postpaid, **25c** for 6 pair; **$1.50** for 50 pair.

SEAMLESS LEG BANDS

This Seamless Pigeon Band is slipped over the foot of the young squab when a week or ten days old. The Band bears the year, date and a number for keeping pedigree. Comes without year date also. Made of aluminum and in three sizes. Order by size number and state how they are to be stamped. We number them from 1 to 100 unless otherwise ordered. Prices, postpaid, with number only, **20c** for 12; **$1.50** per 100.

OPEN PIGEON BANDS

Made of flat aluminum. Prices, postpaid; **15c** for 12; **85c** per 100.

SMITH'S SEALED LEG BANDS

These Leg Bands are an absolute protection for those exhibiting valuable fowls. Once placed on the leg of the bird it is sealed and is there permanently. It cannot be lost off by the fowl, even in the yard. The Bands are all numbered but in no case duplicated. This insures the exhibitor of the identity of his fowl at all times. This Band is used very widely and is undoubtedly the best article of its kind on the market today. Make sure of the identity of your fowls at once by placing **Smith's Sealed Leg Bands** on their legs. Come in 6 different sizes. Prices, **30c** per dozen; **$1.60** per 100.

Smith Sealers, 50c each.

"SPIR-OL"

Celluloid Leg Bands Are Best, Because:—They are easily placed, easily distinguished, cannot come off, can be used over again, do not break, they are cheap. **Colors,** Black, White, Red, Yellow, Blue, Green, Purple, Light Blue, Maroon and Pink.

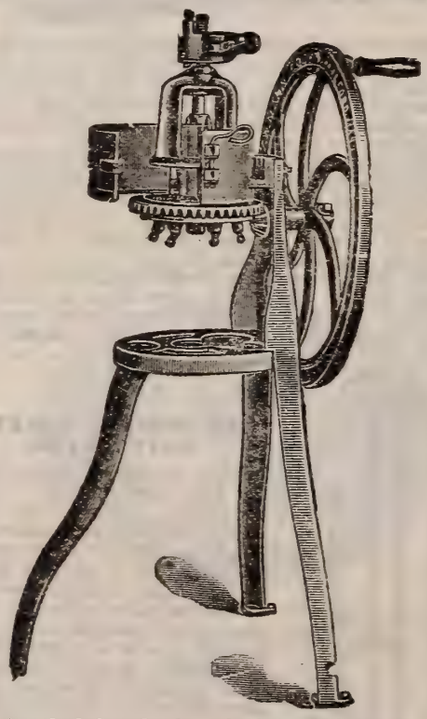
Prices, postpaid, **15c** for 12; **30c** for 25; **55c** for 50; **$1.00** for 100; **$9.00** for 1000.

PETTEY'S POULTRY PUNCH

All Steel, Nickel Plated, Punches Clean Hole; is right size; will not bruise the foot.

Price, **25c** by mail.

MANN'S NEW MODEL No. 7 BONE CUTTER



Intended for flocks of 40 to 100 hens.

Weight, 107 lbs. Cylinder, 7¼ inches in diameter, 5¼ inches deep. Capacity, ½ to 1 lb. per minute. Made in one size only.

Price, **$30.00** F. O. B. Los Angeles.

MANN'S "SEMI-POWER" BONE CUTTER, No. 7½

This Green Bone Cutter is especially convenient for the larger flocks. Like all other **"Mann" Cutters** it is latest in type and readily handles large quantities of bone. It is a combination hand or power Bone Cutter. Adapted to run either way without changing any part.

Capacity, 50 to 100 lbs. per hour. Weight, 150 lbs.; diameter of the pulley, 11½ inches, 2½-inch face. Speed of pulley, 300 revolutions per minute. The No. 7½ has all the late improvements, special feed, anti-clog, open cylinder, tight and loose pulley, etc.

Price, **$38.00** F. O. B. Los Angeles.

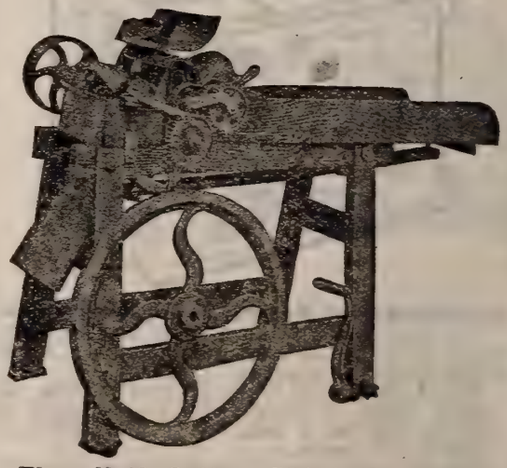
FREEMAN'S No. 7 SPECIAL HAND FEED CUTTER

This is the smallest of our uniform Cutters. It contains all the important features of the larger sizes, such as the change in the length of cut without changing the gears, safety stop lever, etc. The frame is made of hard wood with mortise and tenon joints and is exceptionally well braced. Feed rolls are governed by an equalizer bar and spring so that both ends of feed rolls are raised equally and there is no binding in the boxes. This machine has the adjustable cone feed gearing by which length of cut is changed.

Capacity per hour: No. 7 two knives—dry fodder, 150 to 200 pounds; green fodder, 300 to 400 pounds. Weight 150 pounds.

Price, **$38.00.**

FREEMAN'S POWER CUTTER No. 10½



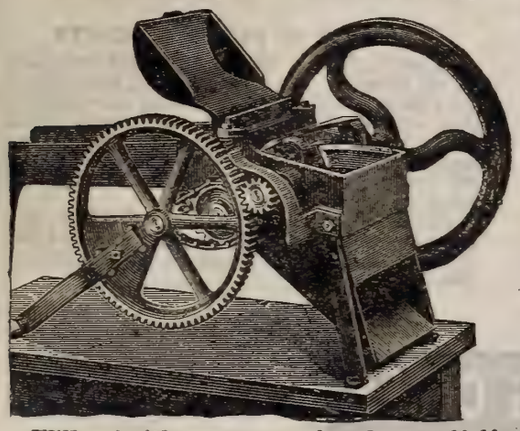
Three Knife Cutter. This is the smallest Freeman Power Cutter manufactured. It is built the same as the No. 10 large hand Cutter with the exception that the crank gear is done away with and the knife head shaft is extended so that pulley or balance wheel can be placed on either side of the machine, but both cannot be placed on the same side at the same time.

Power required, 1 to 1½ horse power. Speed 300 to 400 revolutions per minute. Weight with 10-inch diameter by 3-inch face pulley, 300 lbs. Price each, **$60.00.**

☞ Read Next Page for [158] Thermometers af all kinds

FOOD GRINDERS—THERMOMETERS

FREEMAN No. 4 CLOVER CUTTER



Will cut either green or dry clover, alfalfa, straw, vegetable tops, etc., in one-eigthth inch length, suitable for chicks or grown fowls. The cutter bar is adjustable, and easily accessible for sharpening; the four 7-inch spiral steel knives can readily be removed for sharpening. Has large capacity, strong feed and runs easily. Length of cutter 28½ inches. Weight 60 pounds.
Price, **$26.00** F. O. B. Los Angeles.

BLACK HAWK GRIST MILL

A Convenience and a Money Saver

The Black Hawk Grist Mill grinds corn into meal, wheat into graham flour, or will crack it for breakfast foods. Grinds rice into flour, cracks peas for soups; grinds beans, coffee, spices, salt, sugar, and makes buckwheat flour.
For people who keep poultry the **Black Hawk Grinder** has a double value. It has been proven by poultry experts that cracked grain is much more valuable than whole grain for feeding to fowls. Weight of Mill, 17 pounds. Price complete, **$5.00.** Extra Grinders, per pair **50c.**

BLACK HAWK CORN SHELLER

Very strong and durable, made of malleeable iron and chilled iron. Just the thing.
Price, **$4.50.** Special pamphlet giving full description FREE.

STOVER HAND GRINDING MILLS

These machines will grind dry corn, barley, rye, peas, nut shells, stale bread, etc., for poultry feed, or will grind table meal for family use. They will also grind dry bones and oyster shells, providing the pieces are not too large, in which event they can readily be broken by a stamper, an ax or some other available tool, and placed in the hopper a few pieces at a time; then the machines will pulverize them as fine as desired.

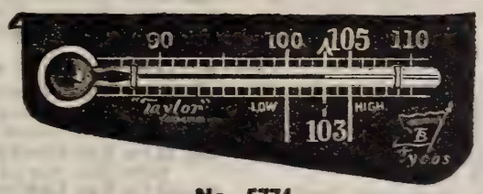
No. 32—16-inch Fly Wheel.....**$ 7.00**
No. 33—19-inch Fly Wheel..... **8.50**
No. 35—20-inch Fly Wheel..... **12.00**

ROOFING — CERTAIN-TEED

Certain-teed Roofing is by every test the Best Roofing on the market. It is universally known, and is made by people who know how.

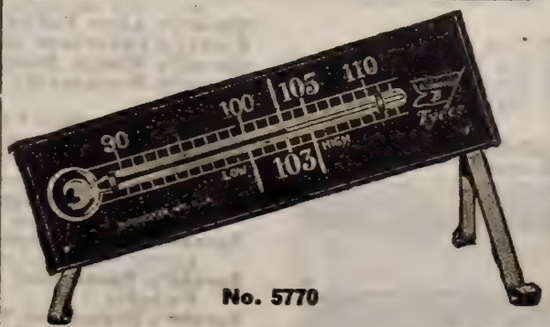
	Each
1-ply, about 35 lbs. per square	**$3.25**
2-ply, about 45 lbs. per square	**4.00**
3-ply, about 55 lbs. per square	**4.75**

TYCOS INCUBATOR THERMOMETER



No. 5774

Black oxidized brass scales, white filled figures and graduations, mercury tubes, angle pattern, flange turned over on upper edge to hook on wire or metal strip.
Price, **90c** each, postpaid.



No. 5770

No. 5770—Straight Pattern.....Each **$1.00**
No. 5782—Certified, same Pattern as No. 5774.....Each **1.25**

No. 5790 BROODER THERMOMETER

When placed in a hole in top of the brooder or hover the scale can be read from the outside while the bulb of the thermometer is inside. Price each **$1.75.**

TYCOS HYGROMETER

Millions of chicks die in the shell every year for the want of proper moisture conditions. The importance of a correct percentage of moisture during incubation has made the **Tycos Hygrometer** as necessary as the **Tycos Incubator Thermometer.** Neither takes the place of the other, but together they give the practical poultry raiser all the facts required for successfully regulating the heat and moisture of his incubators. The **Tycos Incubator Hygrometer** is not a regulator of moisture, but an indicator, showing (together with the Tycos Incubator Thermometer) exactly what the conditions are, so that if not correct they may be made so.

Standard grade **Tycos Incubator Hygrometer,** black oxidized brass scales, white filled figures and graduations, glass water cistern, silk wick, complete directions with each instrument. Price, **$2.00** each.
Extra Silk Wicks for Hygrometers, **15c** each
Booklets on Incubator and Dairy Thermometers sent upon request.

ORCHARD THERMOMETERS

The Tycos Automatic Frost Alarm. When temperature falls below 32 degrees an electric bell rings, waking up the orchard man, **$35.00**
Sir Henry Cunyngham's Frost Predictor. A sure means of forecasting a frost five hours in advance, **$9.00.**

SELF-REGISTERING THERMOMETERS "TYCOS"

5452

No. 5452. Minimum and Maximums. Black oxidized (brass scales, black japanned). Tin case 8 inch.....**$6.00**
10 inch..... **6.50**
No. 5452P. Same as above with copper case, 8 inch..... **7.00**
Same as above with copper case, 10 inch.. **7.50**

5420

HOUSEHOLD THERMOMETERS

5101

Outdoor

No. 5440 Tin Case, Black.....**$ .60**
No. 5420 Japanned Tin Case, 8 inch..... **1.15**
No. 5420 Japanned Tin Case, 10 inch..... **1.25**
No. 5400 Black Japanned Tin, Standard..... **2.00**
No. 5400P Copper Case..... **2.50**

Indoor

No. 5101 Cabinet, Flemish Oak or Ebony Back..... **$2.00**
No. 5908 Candy Thermomoter **1.50**
No. 5720 Glass Churn Thermometer..... **1.00**
No. 5700 Glass Dairy Thermometer..... **2.50**
No. 5981 Hot Bed Thermometer for Mushrooms..... **2.50**

5120

5151

See Page 154 for [159] Incubator Accessories

SPRATT'S KENNEL SUPPLIES

Spratt's Dog and Cat Foods, remedies, Soaps and Appliances

"SPRATT'S" DOG CAKES

Composed of meat, wheat and vegetables. The standard food for dogs. A staple and constant food for all breeds. Used at leading kennels and Dog Shows throughout the world.

Prices, 100-pound bags, **$12.25;** 50-pound bags, **$6.25;** 25-pound bags, **$3.20;** 10-pound bags, **$1.55;** 5-pound bags, **85c;** cartons, **40c.**

"SPRATT'S" PUPPY BISCUITS

A perfect and whole food for puppies of all breeds. Puppies should be started on these biscuits when about one month old, and they should be continued until such time as their teeth become large and strong; usually when they are about six months old. Follow directions on each package.

Prices, 100-pound bag, **$12.50;** 50-pound bag, **$6.40;** 25-pound bag, **$3.30;** 10 pound, **$1.60;** 5 pounds, **85c;** cartons, **40c.**

FEED YOUR DOGS ON SPRATT'S PATENT DOG CAKES

"Spratt's Cod Liver Oil Biscuits are invaluable for old or delicate dogs. Cod Liver Oil builds up a dog as well as a human being. 25-pound bags, **$3.40;** cartons, **40c.**

Spratt's Kibbled Dog Cakes. These are the regular dog cakes, only broken. Same price.

"Spratt's" "Fish and Meat Fibrine" Dog Cakes. Invaluable as a change of diet, especially during the summer months. Prices: Bags, 100 lbs., **$12.50;** 50 lbs., **$6.40;** 25 lbs., **$3.30;** cartons, **40c.**

"Spratt's" Fibo. A splendid food for dogs that are "off their feed," or "shy feeders," or those recovering from sickness. Good as a change of food at any time for all dogs. 25-pound bags, **$3.90;** cartons, **40c.**

"Spratt's" "Midget" Charcoal Biscuits. To correct all bowel troubles, weak digestion, fetid breath, etc. All dogs should have at least once a week, and preferably at regular intervals, a meal of these excellent cakes.

Prices: Bags, 100 lbs., **$13.00;** 50 lbs., **$6.65;** 25 lbs., **$3.50;** 10 lbs., **$1.60;** cartons, **40c.**

"Spratt's" Rodnim. The best granulated Dog Food. Can be fed either dry or moistened with water, milk, or gravy, and is recommended as a change from the regular Dog Cake.

Prices: Bags, 100 lbs., **$14.00;** 50 lbs., **$7.15;** 25 lbs., **$3.65;** 10 lbs., **$1.70;** cartons, **40c.**

"Spratt's" Bulldog and Terrier Meal. Breeders of the "Bull" have largely demanded of us a genuine meal suitable to the breed. We have kept pace with the demand, and here offer a food which will be found highly satisfactory in its conditioning and muscle and bone-making properties. Remember, **Spratt's** confidently recommended it and that it is devoid of added sugar or chemicals. Prices: 100 lbs., **$14.00;** 50 lbs., **$7.15;** 25 lbs., **$3.65;** cartons, **40c.**

"Spratt's" Plain Puppy Meal. The standard weaning food. To be fed before, during and after weaning. 25-Pound bags $3.15, cartons 40 cents.

"Spratt's Pepsinated Puppy Meal. Contains pepsin and recommended for puppies of weak digestion. Tins 35 cents.

"Spratt's" Orphan Puppy Food. Substitute for natural milk. For use when mother is dead or deficient in milk. Tins 60 cents.

"Spratt's" Bone Meal for Puppies. "The strong frame builder." 25-Pound bag $1.75; tins 40 cents.

"Spratt's" Mollicoddles. Milk-meat-wheat. This is something entirely new and is especially fine for lap dogs, bad doers, puppies, cats, etc. Where difficulty is experienced in getting a dog to eat regular dog cakes, feed him Mollicoddles. All dogs eat them and thrive on them. Cartons 40 cents.

"Spratt's" Malted Puppy Food. For shy or dainty feeders. Tins 30 cents.

Send 2-cent stamp for Spratt's book, "Dog Culture", which contains much valuable information regarding feeding and care of dogs.

SPRATT'S NEW SLIP-OVER COLLAR RING LEAD

This is a combination lead and collar and is far superior to old-style collars and leads.

Russet		White Leather	
¼-inch Toy Dog	$1.50	¼-inch Toy Dog	$1.50
⅜-inch Medium Dogs	1.50	⅜-inch Medium Dogs	1.75
½-inch Large Dogs	1.75	½-inch Large Dogs	2.00
⅝-inch Extra Large	2.00		

SPRATT'S PATENT COMBS FOR DOGS (Imported)

Best Nickel-plated Steel Combs

7 INCHES LONG

No. 1, Coarse teeth	$1.00
No. 2, Medium teeth	1.00
No. 3, Coarse and fine teeth	1.00
No. 1, 2, 3, Suitable for collies, etc.	
No. 4, Coarse	1.00
No. 5, Medium	1.00
No. 5, Fine (flea comb)	1.25
No. 0, Flea Comb	1.25
Nos. 4, 5, 6 and 0 suitable for terriers, spaniels, etc.	
No. 7, Nit Comb; double row teeth, one side fine teeth, other side very fine teeth	1.50
No. 8, Tiny Comb. Very fine teeth	1.00
No. 9, Solid Steel Stripping Comb, for terriers, etc	1.25
No. 10, Solid Steel Stripping Comb, with horn handle	1.50

SPRATT'S IMPORTED BRUSHES FOR DOGS AND CATS

No. 116, Horn Bristle Brush, very long stiff bristles. Suitable for pomeranians	$1.50
No. 42, Whalebone Brush. Suitable for rough coated dogs	.85
No. 22, Slanting Bristle Brush. For bulldogs, terriers and smooth coated dogs	1.25
No. 1-25, Slanting Bristle Brush, with handle	1.25
No. 0, Small Bristle Brush (oval shape)	.50
No. 57, White bristles, with handle. Suitable for Yorkshire terriers and all long, silky coated breeds	2.00

All imported brushes subject to change in price.

SPRATT'S DOG REMEDIES

Spratt's Alterative Cooling Tablets, for heated blood, etc.	$0.50
Spratt's Anti-Rickets Tablets, a bone and muscle builder	.50
Spratt's Anti-Asthmatic Tablets	.50
Spratt's Anti-Vomit Tablets	.50
Spratt's Bone Builder, for Rickets, Osteoporosis, etc	1.00
Spratt's Consumption Capsules	.50
Spratt's Chorea Tablets, for Chorea, St. Vitus Dance, etc.	.50
Spratt's Constipation Tablets, a gentle and effective laxative	.50
Spratt's Digestive Tablets, for severe cases of indigestion	.50
Spratt's Diarrhoea Tablets, to relieve diarrhoea which usually follows change of food, etc., etc	.50
Spratt's Distemper Tablets, may be used as a preventative	.75
Spratt's Ear Canker Ointment. For both internal and external forms of this disease	.50
Spratt's Eye Lotion a safe and efficient remedy	.50
Spratt's Famous Dog Soap, per cake	.25
Spratt's Eczema and Sarcoptic Mange Remedy. (Oily)	.50
Spratt's Hair Stimulant and Restorer	.50
Spratt's Kidney Tablets, for Cystitis, or inflammation of bladder, etc	.50
Spratt's Liniment, for Rheumatism, Sprains, Lameness, etc. (for humans as well)	.50
Spratt's Liver Tablets, safe and reliable	.50
Spratt's Locurium Ointment	.50
Spratt's Mange Remedy	.50
Spratt's Pneumonia Tablets. Administer as soon as possible	.50
Spratt's Purgative Tablets. Perfectly safe and effective	.50
Spratt's Rheumatism Tablets. For internal treatment	.50
Spratt's Tonic and Condition Tablets. To build up after sickness and to put in bench show form, etc	.50
Spratt's Worm Capsules. An expellent of Round, Maw and tape worms	.50
Spratt's Worm Capsules for Puppies. May be given with safety to puppies from six weeks old to six months	.50
Spratt's Tonic and Condition Tablets for Toy Dogs and Puppies	.50
Spratt's Distemper Tablets for Toy Dogs and Puppies	.75
Moore's Toxin for Distemper	2.00
Adjunct A	1.00
Adjunct B	1.00

DOG REMEDIES AND SUPPLIES

We maintain a highly efficient, well equipped dog and cat department—carrying a full line of the Spratt foods and remedies as well as the famous Clayton remedies and Dr. French's Dog Remedies. This department is under the supervision of experts who can give you authentic information and advice on the feeding and proper care of dogs and cats. We want our patrons to feel at liberty to ask for any information at any time.

SPRATT'S DOG REMEDIES

Listed on preceding page.

CLAYTON'S DOG REMEDIES

DISTEMPER is an acute contagious disease. The nervous system is generally, if not always, involved, and there is a characteristic skin eruption to be found, but not present in all cases.

This disease has been treated for 35 years very successfully with CLAYTON'S DISTEMPERINE TABLETS for all ages and all breeds. A trial will convince you.

	each		each
Blood Pills	$ .50	Goitre Cure	$1.00
Canker Lotion	.50	Hair Tonic	.50
Ceoline Dog Wash	.40	Kilflea Soap	.30
Ceoline Soap	.15	Kilflea Powder	.40
Cream Soap	.30	Laxative Pills	.50
Condition Pills	.50	Mange Cure	.50
Chorea Tablets	.50	Mange Remedy	.50
Cough Cure	.50	Puppy Tonic	.50
Diarrhoea Cure	.50	Rheumatic Tablets	.50
Distemperine	.50	Shampoo	.25
Digestive Tablets	.50	Sulphur Tablets	.50
Dog Soap Cream	.30	Tape Worm Expeller	.50
Eye Lotion	.50	Vermifuge	.50
Fit Cure	.50	Worm Pills	.50

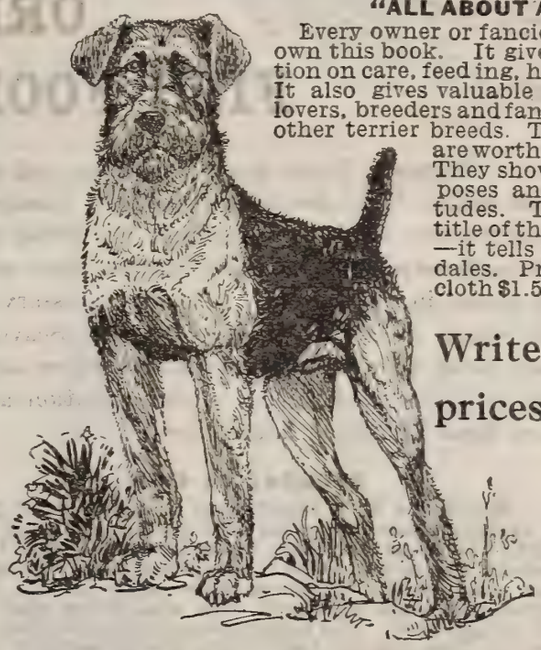
DR. FRENCH'S DOG REMEDIES

Eye Powder	$ .50	Tonic Globules	.25
Canker Granules	.50	Skin Salve	.50
Vermicide Capsules	1.25	Skin Powder	.50
Purgative Pilules	.25	Foaming Shampoo	.50
Enteric Globules	.50	French's Book on Dog Diseases, 10c postpaid.	
Emergency Emetic	.50		

LIST OF ACCESSORIES—WRITE FOR PRICES

Dog harness in leather
Studded with Brass
Leather leads, flat, round, plain or swivel snaps
Lead chains
Leather collars for small dogs
Leather collars for medium dogs
Leather collars for large dogs
Bells and small padlocks
Dog sweaters made of fine wool
Leather muzzles
Fancy leather collars
We also carry combs, brushes and other kennel supplies

"ALL ABOUT AIREDALES"



Every owner or fancier of Airedales should own this book. It gives complete information on care, feeding, housing, training, etc. It also gives valuable information for dog lovers, breeders and fanciers of Airedales and other terrier breeds. The illustrations alone are worth the price of the book. They show the dogs in life-like poses and characteristic attitudes. The text is all that the title of the book would indicate—it tells you ALL about Airedales. Price paper cover $1.00, cloth $1.50.

Write for quantity prices on all feeds.

Foods and Remedies—

CATNIP BALL

Its object is to afford amusement to and benefit the health of cats. In endeavoring to get the catnip it induces them to exercise. If the cat plays with it violently, it is saying as plainly as though it could talk, that it desires CATNIP. If you value Kitty's health, give it some. Price, 20 cents each.

SUMMIT BRAND LOOSE CATNIP

Catnip is medicinal for all cats and where these pets are kept some should be on hand. **Summit's Brand Loose Catnip** is carefully selected and prepared from loose catnip leaves and tops. It is free from adulterations, dirt or foreign matter and is especially intended for making Catnip Tea. It is also beneficial to cats and kittens; if a little is given frequently it will keep the animals in condition. It is better at all times for the cat than green catnip. Price, **15c.**

FOR CATS—

If you want to keep your cat in good condition with a smooth glossy coat, you must feed it scientifically. We carry the best foods on the market—food that keeps pussy free from worms and other diseases. However, it is bad policy to feed one kind of food for any length of time. You should change off from time to time as a cat will not continue to thrive on one kind of ration any more than a human being will.

SPRATT'S CAT FOOD. A complete food for cats. Used at the leading catteries throughout the world and daily becoming more popular among the fancy. Prices: Bags, 50 lbs., **$6.75;** 25 lbs., **$3.50;** 10 lbs., **$1.60;** cartons, **40c.**

SPRATT'S CAT FOOD WITH PASTEURIZED MILK. Excellent for kittens and invalid cats. Prices, same as regular Cat Food.

SPRATT'S FISH CAT FOOD. Use this as a change of diet, especially during the summer months. Prices, same as regular Cat Food.

SPRATT'S MALTED KITTEN FOOD. Thousands of kittens that are somewhat delicate at birth or that are without stamina die for want of proper food and nourishment. For these little fellows we strongly recommend this food. It is very highly prized in England, and is daily becoming more popular in this country. Price, **30c** per tin.

Spratt's Tonic and Condition Tablets	Each	$0.50
Spratt's Worm Capsules	Each	.50
Spratt's Distemper Tablets	Each	.75

CLAYTON'S CAT REMEDIES

Clayton's Cat Remedies are recognized as standard the world over. We unhesitatingly recommend them.

FREE—A Treatise on the Cat by George Clayton.

Blood Purifying and Cooling Tablets. For all blood diseases, mange, eczema, etc.	$0.50
Canker Lotion Tablets, For all diseases of the ear	.50
Cough Remedy, For coughs	.50
Diarrhoea Tablets	.50
Digestive Tablets, For all stomach disorders, for vomiting	.50
Distemperine and Distemperine Tablets. For Distemper	.50
Eye Lotion Tablets, For all diseases of the eye	.50
Fit Tablets, For fits	.50
Kilflea Powder	.40
Laxative Tablets. Acts directly on the liver and secretions	.50
Mange Remedy, For all forms of skin disease	.50
Mouth Wash, For all ulcerated conditions of the mouth	.50
Soap	.30
Tape Worm Expeller Tablets. Will expel the tape worm	.50
Tonic Catnip Condition Tablets	.50
Vermifuge (liquid)	.50
Wash and Disinfectant. Kills Fleas, Disinfects	.30
Worm Tablets. Will expel worms	.50

CATNIP MICE

A new plaything for the cat in the way of Catnip. The animal has a wonderful time playing with it, besides being of great health benefit. Price, **15c** each.

ORNAMENTAL FISH FOODS—ACCESSORIES

Vogues in home decorations come and go. Today the ornamental Fish has come into its own and no home decorative scheme is considered complete without colorful, fancy shaped Fish in attractive bowls or aquariums. In fitting up an aquarium it is necessary to approach nature as nearly as possible. Cleanly washed river sand or gravel and some ornamental piece of rockwork should be placed in the bottom. It is also necessary to have some fresh water plants that will grow underneath the water, in order to supply oxygen. Scavengers and snails should be included in the equipment as they clean up refuse that would otherwise decay and spread disaster through the aquarium. The feeding of Fish should receive careful attention and only scientifically prepared food should be used. Never feed bread crumbs or animal food.

DECORATIVE FISH

We have a wide assortment of ornamental fish in a varying degree of sizes and color, including Gold Fish, Telescope Eye Fish, Straight-tails, Dwarf Transparent, Calico and others. There is a great variation in the color of the Telescope Eye—some are all black, others are black and gold, gold and white, and blue-black and gold. The latter are called Calico fish. The Dwarf Transparent Gold Fish are exceedingly small and only grow to one inch in length. They are transparent and stay near the top of the water. They move very quickly and if put in a fairly large size aquarium the big fish cannot catch them.

FISH FOOD

Germain's Special Fish Food, **10c** pkg.	**$1.75** per lb.
Spratt's Aquarium Fish Food	**.15** per pkg.
Spratt's Wafer Fish Food	**.15** per pkg.
Germain's Wafers	**.15** per pkg.

AQUARIUMS

Fish Bowls	**$1.10** and up
Fish Bowls, with glass foot	**3.00** and up
Aquarium Post	**3.50** and up

LISTING OF FISH

Telescope Eye Goldfish	$.40	$.50	$.75	$1.00	$2.00
Fantails		.35	.50		
Straight-tail	.25	.35			
Dwarf Transparent	.15—2 for .25				

Paradise Fish $2.00 per pair.

SCAVENGERS

Scavengers resemble snails but are much smaller in size. Both scavengers and snails are necessary in aquariums as they eat the refuse and keep both water and glass clean. Price on application.

WATER LILIES

Our list of Water Lilies in both the tropical and hardy varieties is very complete.

Wm. Doogue—Flowers, cup shaped, of beautiful shell pink; deliciously fragrant. Price, **$1.50.**

Alba Candidissima—A vigorous and desirable variety. Flowers good sized and pure white. Price **$1.50.**

Marliacea Chromatella—A free and vigorous grower, light canary yellow. Price, **$1.50.**

Gloriosa—A superb variety, deep carmine rose. A free, continuous bloomer. Price, **$2.50.**

Robinsoni—Floating flowers of dark orange-red, a free bloomer. Price, **$1.50.**

Mrs. Richmond—The plant is a strong grower and a free bloomer of flowers with a glowing violet rose-pink, shading to white at the outer edge. Price, **$10.00.**

Somptuosa—An extra large flower, very double, outside petals rosy pink, gradually deepening toward the center nearly crimson. Price, **$6.00.**

Escarboucle—A most attractive and meritorious variety. The flowers are most striking in color, being a uniform vermillion-red. A free bloomer and a strong grower. Price, **$6.00.**

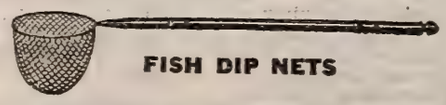
Paul Hariot—A grand and magnificent variety producing flowers of the most delicate primrose-yellow, with a glowing salmon-pink center. Price, **$3.00.**

Comanche—The largest and finest colored of all the varieties having apricot tints. The flower is a combination of orange and glowing amber-red. Price, **$3.50.**

WATER PLANTS

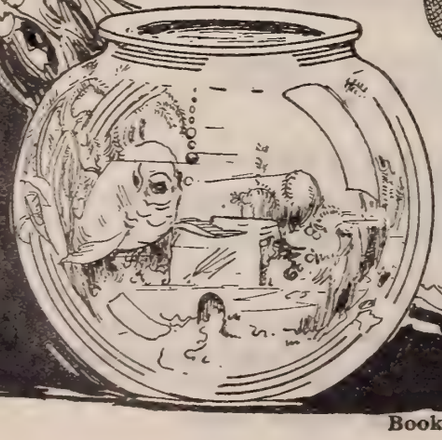
Water Plants are a necessary adjunct in raising ornamental fish, as they supply oxygen and keep the water pure as well as adding greatly to the attractiveness of the bowl or aquarium.

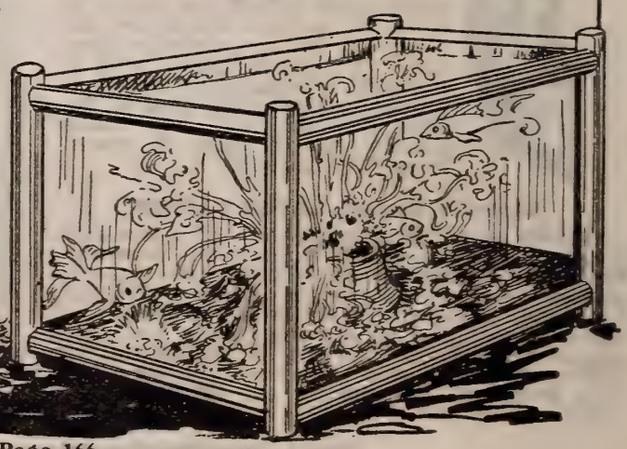
Anacharis Moss	**10c** per bunch; 3 for **25c**
Parrots Feather	**10c** per bunch; 3 for **25c**
Eel Grass	**10c** per plant
Water Hyacinths	**15c** per plant; 2 for **25c**



FISH DIP NETS

A dip net is almost indispensable around an aquarium as it is frequently necessary to remove the fish, and a net will enable you to do this without harming them. The one illustrated above is strong and durable and has polished wood handle. Three sizes, **20c, 35c** and **45c** ea.





SINGING AND DECORATIVE BIRDS

CANARY BIRDS

These beautiful birds are the favorite song birds and today no home is complete without a dainty cage and its joyful occupant. Their wonderful vocal powers make them desirable pets and one finds it also interesting and very profitable to raise them. They readily breed in cages or aviaries and one can easily care for them by following the directions given in our book. We carry in stock only the best of these—both male and female— and can quickly furnish them in any number desired.

THE ROLLER

Considered the finest singers among the canaries, these birds are bred and trained in the United States. The birds are handled only by experts who use bird organs to train the vocal powers. St. Andreasburg Rollers represent the product of years of constant training and cultivation of the canary's voice.

THE HARTZ MOUNTAIN WARBLER

These birds have been raised in the United States since the war. They rightly deserve their famous renown as a joyful and active singer besides possessing extraordinary vocal powers.

THE ENGLISH OR NORWICH CANARY

Bred for their beautiful plumage, size and markings, as well as for their strong song, these birds make splendid pets and should be in every home.

Prices of birds on application. We always have on hand choice singers at **$15.00** and up. Safe shipment by express.

CAUTION—Never hang your bird where there is liable to be a draft.

ROLLERS

Males in beautiful green and mottled yellow at **$25** and up. Females at **$5.00** and **$7.50.**

HARTZ MOUNTAIN WARBLERS

These dainty little singers are cinnamon, green or mottled yellow, and the males are priced at **$6.00** and up. Females **$1.50** and up.

NORWICH

Green and mottled yellow in color. Males **$15.00** and up. Females, **$7.50** and up.

FINCHES

Strawberry
Zebra
Niger
Society
Black Head Nuns
White Head Nuns

Write for Prices

PARRAKEETS

Green, **$12.00** a pair; Yellow, **$15.00** a pair.

JAVA SPARROW

Blue, **$4.00** a pair.

MADAM SHAFER'S NESTLING FOOD

The best food for young birds. Not only does it take the place of egg in the diet, but by being scientifically prepared contains all the ingredients necessary for the nourishment and growth of the young birds. Price, **35c.**

MADAM SHAFER'S TONIC AND SONG RESTORER

As a general tonic it is unequalled. Fed during the moulting season will hasten the moult and restore the song. Price, **35c.**

MEDICATED SEED

A special treat for the birds. Has tonic properties. Per can **20c.**

SPRATT'S REMEDIES, BIRD SPECIALTIES, ETC.

An invaluable remedy in the treatment of colds and asthma. A few drops of **Canarydyne** given when first symptoms of a cold are noticed usually results in a cure. Price, **25c.**

Red Color Food	$0.25
Orange Color Food	.25
Spratt's Pollicrackers	.25
Spratt's Bird Tonic (large)	.25
Spratt's Bird Tonic (small)	.15
Spratt's Parrot Tonic	.25
Spratt's Bird Lice Destroyer	.35
Spratt's Mocking Bird Food	.75
Cod Liver Oil Cage Bird Food	.25

BIRD SUPPLIES

Bird Foot Salve	$0.20
Egg and Fruit Mixture	.25
Canary Leg Bands, per dozen	.25

BIRD MANNA

For the basis of this preparation we are indebted to the canary breeders of the Hartz Mountains. They use a paste that keeps their birds in health and song and cures nearly all diseases. We obtained the secret recipe for the paste, and after considerable improving upon it converted it into **Bird Manna,** which is now more widely known than any article ever prepared by bird dealers, and solely upon making its merits known and having been tested. **Bird Manna** is put up in metal cases, secured by letters patent and is fastened to the cage wires, within easy reach of the bird. Price, **20c** each.

HENNINGS' BIRD TONIC
(Spratt's)

For the prevention and cure of all diseases which cage birds are subject to. Colds, asthma, hard breathing, shedding of feathers out of season, diarrhoea, etc. When a bird is in good health, his feathers are sleek and smooth, adhering closely to the body.

Whenever you perceive him sitting dull and bunchy, something is out of order. A tonic will build up the system and give strength. In bottles, 25 cents. Not mailable.

BIRD FOODS AND REMEDIES

If required by mail add 10 cents per pound for postage.

SPRATT'S BIRD LICE DESTROYER (HENNING'S). For dusting the feathers. Price, 35 cents;

SPRATT'S PARROT FOOD. A mixed food for parrots which should be kept before them all the time. Cartons, 25c each.

DEFIANCE MOCKING BIRD FOOD. The purest food obtainable for Mocking Birds, Robins, Nightingales, Thrushes, Black Birds, Skylarks, and other soft billed birds. Per tin, 75c.

BURROW'S PURE COLOR FOOD

All prepared and ready to use. This color food imparts the rich orange color to canaries so desired by breeders and exhibitors. Large can, 60 cents.

SPRATT'S CELEBRATED COLOR FOOD

Feed in conjunction with bread crumbs ,eggs, etc. Full directions given on can. Comes in two colors, red and orange. Price 25 cents per can.

GERMAIN'S MIXED BIRD SEED. Bright, clean, pure and wholesome, specially mixed by us according to the recipe of a famous German specialist. Germain's name and reputation are its guarantee. Price per package, 25 cents.

GERMAIN'S BRAND SILVER WASHED BIRD GRAVEL is especially prepared for cage birds. To properly care for the bird, clean the cage and sprinkle the bottom with this gravel once a day. Per package 10c.

	Per lb.
Mixed Bird Seed	$0.20
Mixed Canary and Rape	.25
Hemp	.20
Cuttle Fish Bone	.80

	Per lb.
Maw (Blue Poppy)	
Lettuce Seed, for birds	.15
Millet, White French	.20
Sunflower, Russian	.20

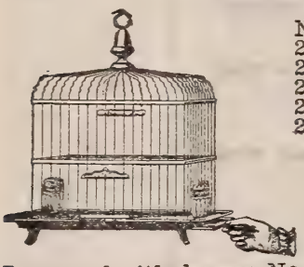
PLAIN AND FANCY CAGES

JAPANNED BIRD CAGES

Our Japanned Cages are carefully selected and even the cheapest one will please you. They are finished with a hard enamel coating which insures a clean neat appearance as well as wearing quality of many years.

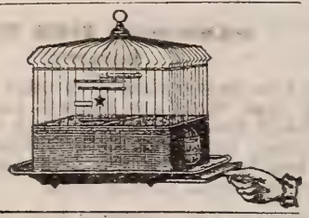
Fancy Japanned, No. 272. Price $2.75

No.	Inches	Price
270	9 x 6	$3.05
271	9½ x 6½	3.25
272	10 x 7	3.50
273	10½ x 7½	3.75
274	11 x 8	4.00



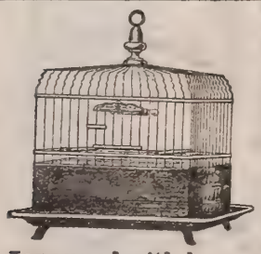
Japanned with drawer, No. 273D. Price $5.00.

Japanned with brass guard and drawer, No. 2273D. Price $6.50



No. 165	9½x6½,	15¼ in. high	**$3.00** each
No. 166	10½x7	16 in. high	**3.50** each
No. 167	11 x7½,	16¾ in. high	**4.00** each
No. 168	12¼x8¼,	17½ in. high	**4.50** each
No. 169	13 x8¾,	18 in. high	**5.00** each

No. 266	10½x7	, 16 in. high	**$6.00** each
No. 267	11 x7½,	16¾ in. high	**6.50** each
No. 268	12¼x8¼,	17½ in. high	**7.00** each
No. 269	13 x8¾,	18 in. high	**7.50** each



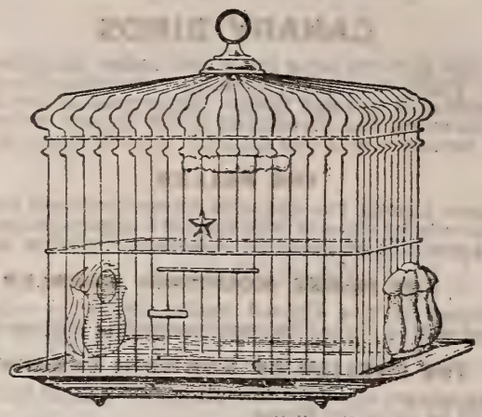
Japanned with brass guard, No. 2273. Price $6.00

JAPANNED, WITH BRASS GUARDS

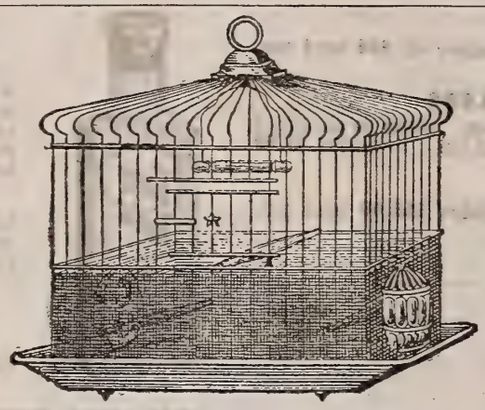
No.	Inches	Price
2272	10 x 7	$5.50
2273	10½ x 7½	6.00
2274	11 x 8	6.50
2275	11¾ x 8¾	7.00

These Cages have a Brass Wire Guard attached to the Japanned wires, to prevent birds from throwing shells of seed and gravel beyond the bottoms.

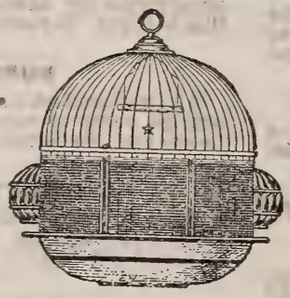
BRASS CAGES



No. 470	9 x6	inches	**$3.50** each
No. 471	9½x6½	inches	**4.00** each
No. 472	10⅛x7⅛	inches	**4.50** each
No. 473	10¾x7¾	inches	**5.25** each
No. 474	11⅜x8⅜	inches	**6.00** each
No. 475	12⅜x9⅜	inches	**7.00** each



No. 2471	9½x6½	inches	**$6.50** each
No. 2472	10⅛x7⅛	inches	**7.00** each
No. 2473	10¾x7¾	inches	**7.50** each
No. 2474	11⅜x8⅜	inches	**8.50** each
No. 2475	12 x9	inches	**10.00** each



No. 2536

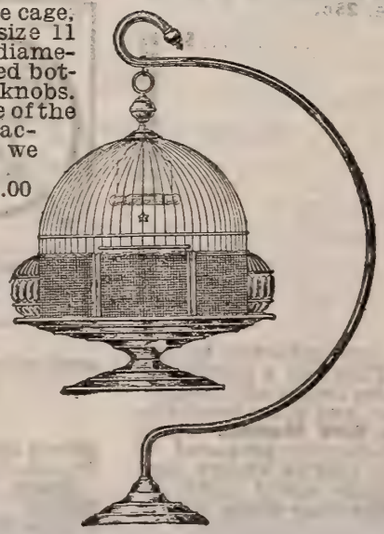
11-inch diameter

Price.....**$9.00**

Brass dome cage, No. 2526, size 11 inches in diameter, polished bottom and knobs. This is one of the most attractive cages we carry.

Price $10.00

Does not include stand.



FANCY HALF GLOBE IVORY

No. 6 10 in. dia., **$5.50** each

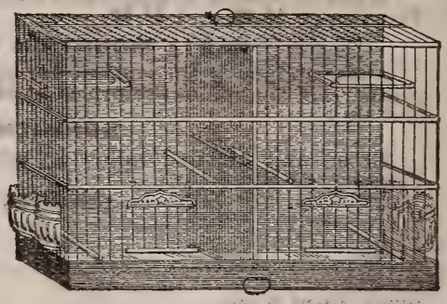
No. 6½ 11 in. dia., **$6.00** each

No. 7 12 in. dia., **$6.75** each

TRAVELING CAGE

We carry a small cage for use by those who travel considerably and still wish to take their bird with them. It is very handy, being only 4½ inches high, 6¼ inches wide and 8¾ inches long, supplied with feed and water cups. Price **$2.00.**

BREEDING CAGES



Our stock of both single and double Breeding Cages is complete, in wood Japanned and tinned. These can be stored away when not in use for breeding or after fixtures are removed, used for young growing birds.

Japanned Double	$10.00	
" Single	6.00	
Tinned, Double	6.25	(14″)
" "	5.50	(13″)
Tinned, Single	5.00	(12″)
" "	4.25	(11″)

PARROT CAGES

We carry a complete line of parrot cages and can supply you in various sizes. Prices average from **$9.00** up.

Heavy Tin Bottoms with Zinc Pans. Tinned Iron Seed Cups.

BIRD CAGE ACCESSORIES

We are showing on this page a few of the many accessories and aviary supplies carried in our complete Bird Department. Space will not permit us to give full listing, so we have shown only those goods most necessary to bird raising. It is our intention to make our bird department the best of its kind in the West, and to be well stocked at all times with standard as well as novel accessories and supplies. Our mail order department is fully equipped to take care of all orders, so if goods you desire are not listed in this catalog, kindly write us and we will endeavor to satisfactorily supply you.

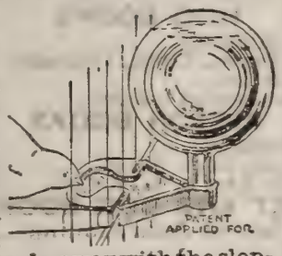
SHELL FEED AND WATER CUPS

The Shell Cup shown here can be used for either food or water. Made to fit any cage and is easily detachable. It is clean, sanitary and prevents birds from wasting food. Price..
Shell Cup in Crystal 20 each
Shell Cup in Opal 25 each
Single Cup Points 15 each
Square Canary Cups 30 each

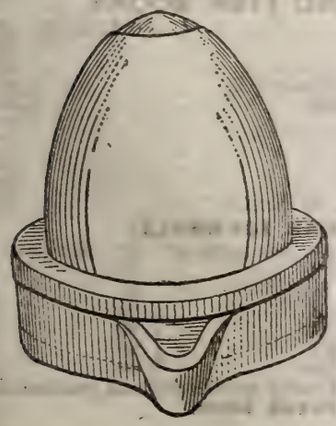
TULIP FEED AND WATER CUPS

The Tulip Cup is one of our best sellers. It fits any cage, is easily cleansed and filled, and is perfectly sanitary. It comes in both crystal and in opal.
Tulip Crystal Cup 20c each
Tulip Opal Cup ... 25c each

CRYSTAL FOUNTAIN



The Crystal fountain is new, sanitary and very attractive. It can be used on any cage. The crystal globe is filled with water and inverted over a nickel base which holds just enough water at a time to keep supply clean and fresh. It is so constructed as to do away with the slopping over of water that is often attendant in cage fountains. Price $1.75 each.



INSIDE FOUNTAIN

Total height, 2¾ inches.

Crystal Glass Price 35 cents each

TREAT CUPS

A sanitary porcelain cup that holds just enough for one feeding. Designed especially for use in giving tonics, or when some treat in the way of food is offered. Price 20c.

CANARY SWINGS AND HANGERS

This swing is especially attractive. Has bell-like top and light easy perch. Price of swing..... of hanger.... Other perches with hanger priced from 30c to $1.25 each.

2-FOOT CHAIN WITH SPRING—Brass

For use where ceilings or windows are high. This gives the same easy swing to the cage as does the single cage spring. The chain and spring are made of brass and will last indefinitely.

2-Foot chain and spring, 40 cents.

CAGE SPRINGS

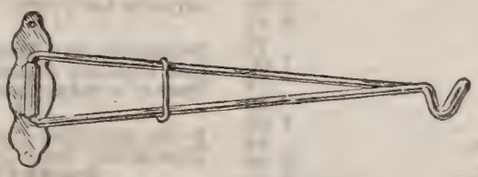
Single. This spring is made of extra fine wire, which gives a free, easy springy movement to the cage. Price 20 cents each.

Extra heavy. This spring is made of wire heavy enough to support large cages. Price 30 cents each.

DOUBLE CAGE SPRING

This spring is for extra heavy cages and is so constructed that it prevents cages from swinging around. Price 30 cents each.

CAGE BRACKETS



No. 224	8 inches.	Nickel Plated.....	$ .35
No. 226	10 inches.	Brass Plated and Lacquered.....	$ .55
No. 227	12 inches.	Brass Plated and Lacquered.....	$ .75
No. 116	10 inches.	Brass Plated.....	$ .45

WIRE GUARD CLOTH

Extra fine quality of wire cloth of the regulation width. As this guard cloth comes in rolls we can sell lengths to fit any cage. Price per foot 40 cents.

TAPERED CANARY PERCHES (For Brass Cages)

For square cages, sizes 6, 6⅝, 7¼, 8½, 8⅝ and 10⅞ inches. Price 10c each.
For round cages, sizes 8, 8⅞, and 9½ inches Price 10c each.

WIRE NEST WITH SWIVEL

4 Inches in diameter. Vermin-proof. Adapted to all Breeding Cages, with or without nest boards. Price, 20 cents each.

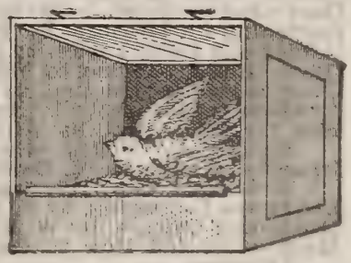
BIRD NESTING

Clean, sanitary nesting prepared of deer hair. Makes a soft warm bed and is readily used by birds. Price 10c package.

CANARY BATHS

These are of porcelain construction and will last indefinitely. Ideal for use as an open bath in a warm room. Two sizes.
Opal, each..... 0.30
Crystal, each..... .25

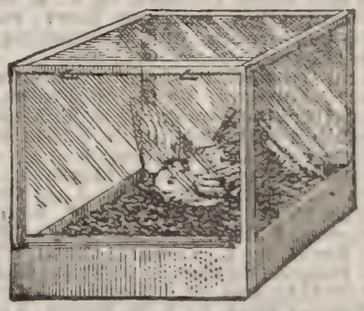
CANARY BATH HOUSE NO. 1



Of white enameled tin with a top glass light. It fits the door of any canary cage and it is impossible for the bird to splash the water out.

4x4 inches..... $0.75

No. 2 CANARY BATH HOUSE



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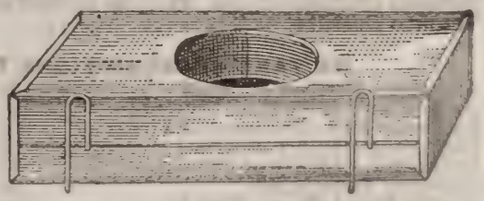

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TABLE OF CONTENTS

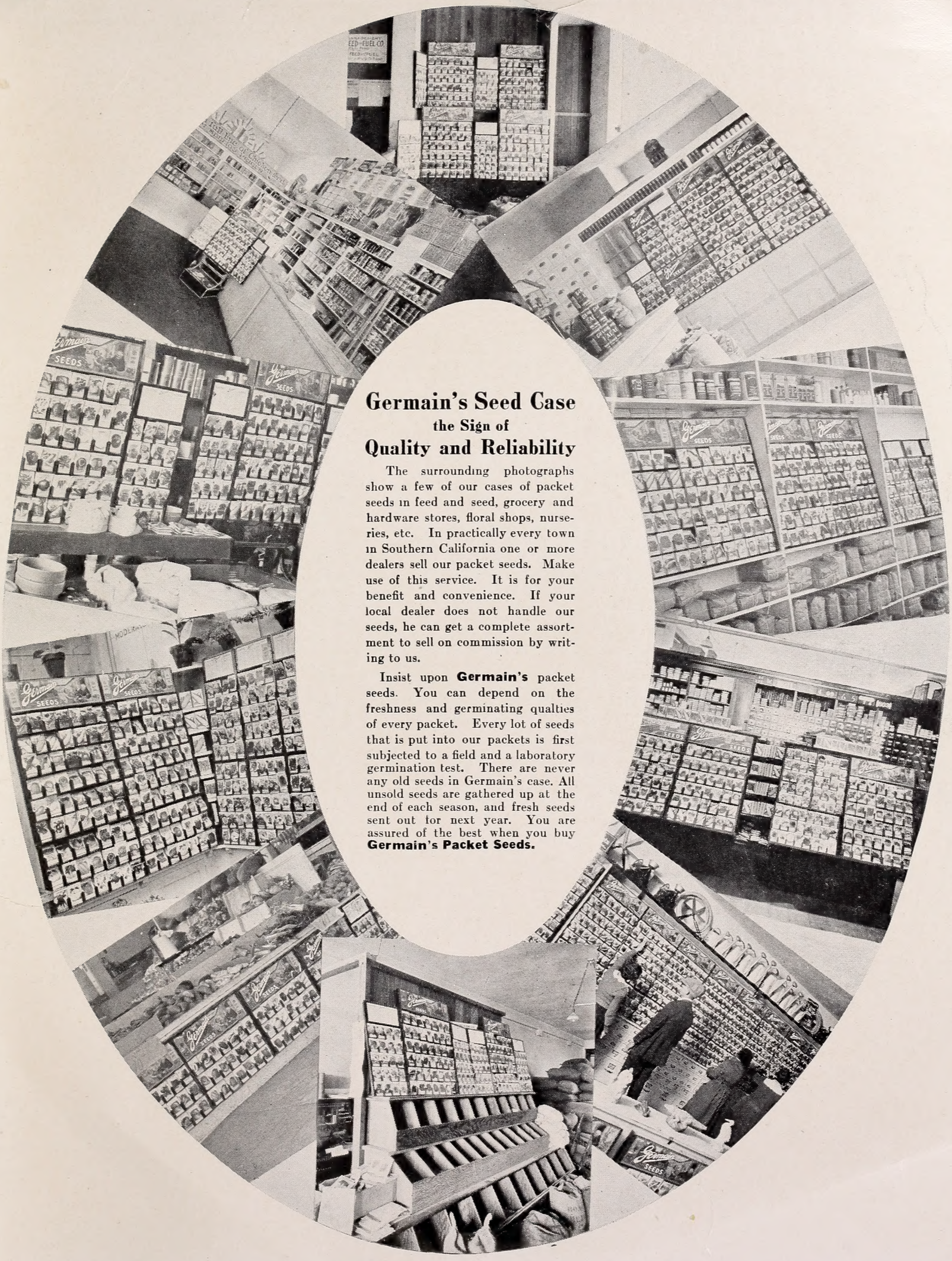
	Page
GENERAL INFORMATION	1
PLANTING CHART	2
SPRAYING CHART	3
FARM TABLES	4
VEGETABLE SEEDS	6-42
FIELD SEEDS	43-61
FLOWER SEEDS	62-90
TREE AND SHRUB SEEDS	91-93
PLANTS AND BULBS	94-127
VEGETABLE PLANTS	128
FERTILIZERS	129
INSECTICIDES	130-133
NURSERY AND ORCHARD SUPPLIES	135
SPRAY PUMPS	136-138
GARDEN TOOLS	139-145
POULTRY SUPPLIES	146-159
DOG AND CAT SUPPLIES	160-161
FISH SUPPLIES	162
BIRD SUPPLIES	163-165
BOOKS	166
INDEX	167-168

INDEX

Abelia 124
Abobra 81
Abronia 68
Acacia 91
Acacia, Plants...124
Acanthus 120
Aconitum 82
Acroclinium 81
Adiantum 127
Adlumia 77
Adonis 68
African Daisy (See Dimorphotheca)
Agapanthus 115
Agathea 120
Agave 93
Ageratum 68
Ageratum, Plants 120
Agrostis 55, 81
Alfalfa 52
Alfilaria 59
Allegheny Vine (See Adlumia)
Almond Seed 93
Alpine Edelweiss (See Gnaphalium)
Alsike Clover..... 53
Alyssum 68, 82
Amaranthus ..68, 81
Amaryllis 115
Ammobium 81
Ampelopsis 77
Ampelopsis, Plants 117
Anagallis 68
Anchusa 82
Anchusa, Plants..120
Anemone 82
Anemone, Plants.120
Anemopaegma ...118
Anthericum 128
Anthrium 127
Antigonon 77
Antigonon, Plants 118
Antirrhinum 82
Aquilegia 82
Aquilegia, Plants (See Columbine)
Arabis 82
Arabian Primrose (See Arnebia)
Aralia 124
Araucaria 127
Arborvitae (See Thuya)
Arctotis 68
Argemone 68
Aristolochia 77
Armeria 82
Arnebia 68
Artichoke ..18, 56, 59
Artichoke, Plants 128
Asparagus 18
Asparagus Fern Seed 82
Asparagus Fern, Plants 128
Asparagus, Vegetable Plants 128
Asperula 82
Aspidistra 128
Aspidum 127
Asplenium 127
Aster 64, 69
Aster, Plants.....120
Astilbe 124
Auricula 82
Australian Pea Vine (See Dolichos)
Australian Rye Grass 55, 62
Australian Wire Vine (See Muehlenbeckia)
Baby Blue Eyes (See Nemophila)
Bachelor Button (See Centaurea)
Balloon Vine..... 77
Balsam Pear (See Momordica)
Balsam 70
Balsam Apple (See Momordica)
Barley 58
Bartonia 70
Basket Flower (See Centaurea)
Baskets, Hanging.135
Beans.6, 10, 18, 19, 20
Beans, Field....54, 57
Beaucarnea 128
Beefwood (See Casuarina)
Beets 21
Beets, Stock..... 56
Beets, Sugar..... 56
Begonia 82
Begonia, Plants..121
Bellflower (See Campanula)
Bellis 83
Berberis 124
Bermuda Grass... 55
Bignonia 77
Bignonia, Plants 117, 118
Bird Supplies.163, 165
Bird's Nest Fern, (See Asplenium)
Blatchford's Foods 148
Blazing Star (See Mentzlia)
Bleeding Heart (See Dicentra)
Bloomeria 90
Bluebell, Climbing (See Sollya)
Blue Bottle (See Centaurea)
Blue Grass 55, 62
Books 166
Borecole 28
Boronia 91
Boston Fern (See Nephrolepis)
Boston Ivy (See Ampelopsis)
Bougainvillea, Plants 118
Boxwood 124
Brachychiton 91
Brachycome 70
Briza 81
Breath of Heaven (See Diosma)
Broccoli 21
Brodiaea 90
Brome Grass 55
Bromus Inermis.. 55
Brooders 154
Broom Corn..... 59
Browallia 70
Bryonopis 81
Brussels Sprouts. 21
Buckwheat 58
Buddelia 124
Burning Bush (Fraxinella)
Burr Clover 53
Buxus 91
Buxus, Plants....124
Cabbage 7, 22
Cabbage, Plants..128
Cacalia 70
Cactus 83
Cages, Bird.....164
Calabrian Pink (See Saponia)
Calandrina 70
Calceolaria 70
Calendula 70
California Native Flowers 90
California Poppy (Eschscholzia) 65, 90
California Yellow Violet 90
Callas 115
Calliopsis 70
Callistemon 124
Calycanthus 93
Calycanthus, Plants 124
Campanula 83
Camphora 91
Camphor Tree.... 91
Canadian Peas.... 55
Canary Bird Flower 77
Canary Seed..... 59
Candytuft 71
Cannas 83
Cannas, Plants...111
Canterbury Bells. 83
Canterbury Bells, Plants 120
Cantaloupes.12, 30, 31
Capparis 93
Caponizing Tools.156
Cardinal Climber. 77
Cardinal Flower (See Lobelia)
Carnation 83
Carnation, Plants.110
Carolina Cherry (See Prunus)
Carrots 23, 56
Cassaba 31
Castor Beans, Ornamental (See Ricinus)
Casuarina 91
Casuarina, Plants 124
Catalpa 93
Catalpa, Plants..124
Catchfly (See Silene)
Cat Supplies.....161
Cauliflower 8, 23
Cauliflower Plants 128
Cedrus 91
Cedrus, Plants ..127
Celeriac 24
Celery 24
Celery, Plants....128
Celosia 71
Centaurea 70, 83
Centranthus 71
Cerastium 83
Ceratonia 93
Chamaerops 93
Chamaerops, Plants 127
Chenostoma 120
Cherry Pie (See Heliotropium)
Chervil 24
Chicory 24
Chinese Rice Paper (See Aralia)
Chinese Wool Flower 65
Chives 25
Chives, Plants....128
Choisya 124
Chrysanthemum 71, 83
Chrysanthemum Plants 108, 109
Cigar Plant (See Cuphea)
Cineraria 71, 83
Citron 33
Citrus Fruits.....128
Clarkia 71
Clematis 77
Clianthus 77, 83
Clintonia 71
Clover 53
Cluster Lily..... 90
Cobaea 77
Cocos 93
Cocos, Plants.....127
Coix 81
Coleus 83
Collards 26
Collinsia 71, 90
Columbine 121
Columbine (See Aquilegia)
Condiments 146
Conifers 127
Conkey's Remedies 149
Convolvulus 71, 77, 84
Coprosma 124
Coral Tree (See Erpetion)
Coreopsis 84
Coreopsis, Plants.120
Corn, Sweet....9, 25
Corn, Field.....44-50
Corn Salad 25
Corn Flower..... 70
Cornus 124
Coronilla 91
Coronilla, Plants..124
Cosmidium 71
Cosmos 71
Cotoneaster 124
Cotton 59
Coulson's Foods..147
Cover Crops..... 55
Coxcomb (See Celosia)
Cowpeas.....55, 57
Cow Remedies....151
Cream Cups (See Platystemon)
Creeping Bent Grass 55
Crepe Myrle 125
Cress 26
Crested Dog's Tail Grass..... 55
Cretaegus 124
Crimson Flax (See Linum)
Cryptomeria 91
Cryptomeria Plants 127
Cucumbers 10, 26
Cucumber Snake. 81
Cunninghamia ... 91
Cuphea 84
Cuphea, Plants ..121
Cupressus 91
Cupressus, Plants 127
Currant Seed 93
Cyclamen 84
Cyclamen, Plants.115
Cypress 91
Cypress, Plants..127
Cypress, Summer (See Kochia)
Cypress Vine..... 77
Cyrtonium 127
Dahlias 84
Dahlias, Plants.....113, 114
Daisy (Bellis).... 84
Daisy, Shasta....123
Dame's Violet (See Rocket)
Dandelion 27
Date Palm (See Phoenix)
Datura 71
Deciduous Tree and Shrub Seed. 93
Delphinium 84, 90
Delphinium Plants 121
Dendromecon 90
Dew Plant (See Mesembryanthemum)
Dianthus 84
Dicentra 90
Digitalis 84
Dimorphotheca .. 71
Diosma 124
Disinfectants.150, 152
Dodecatheon ..84, 90
Dog Supplies.160, 161
Dogwood (See Cornus)
Dolichos 77
Dracaena 93
Dracaena, Plants.128
Durra 49
Dusters 133, 134
Dusty Miller (See Centaurea)
Dutchmar's Pipe (See Aristolochia)
Eccremocarpus .. 77
Egg Boxes 157
Egg Plant..... 27
Egg Plant (Plants) 128
Egg Preserver....157
Egg Scales.....157
Egyptian Corn.... 49
Egyptian Wheat.. 49
Emmenanthe 90
Endive 27
Ensilage Corn.44, 45
Eragrostis 81
Erica 125
Erigeron 84
Erpetion 84
Erythea 93
Erythrina 84
Erythrina, Plants.125
Escallonia 125
Eschscholtzia..66, 90
Eugenia Myrtifolia 125
Eulalia 81
Euonymus 125
Eutoca 71
Evening Primrose 84
Everlasting Flowers 81
Fabiana 125
Feather Grass (See Stipa)
Fencing 157
Fenugreek 55
Fenzlia 71
Ferns 127
Fescue 55
Festuca 55, 81
Feterita 49
Ficus 91
Ficus, Plants.118, 125
Fish Supplies.....162
Flax 59
Flower Pots.....135
Forget-Me-Not (See Myosotis)
Fountain Plant (See Amaranthus)
Four o'Clock (See Marvel of Peru)
Foxglove (See Digitalis)
Fraxinella 84
Fraxinus 93
Freesia 84
Fremontia 90
French Honeysuckle 84
Fruit Tree Seeds. 93
Fuchsias 112
Gaillardia 85
Garlic 28
Gaura 71
Gazanias 122
Genista 125
Gentiana 85
Geranium 85
Geranium, Plants.111
Geraniums (See Pelargoniums)
Gerbera 85
Gerbera, Plants.. 98
Germain's Foods..146
Geum 85
Gilia 71
Gilliflower (See Stock)
Gingko 125
Gladiolus 115
Gleditschia 93
Globe Amaranthus 81
Gloxinia 85
Gnaphalium 81
Godetia 72
Golden Feather (See Pyrethrum)
Golden Glow (See Rudbeckia)
Golden Rod (See Solidago)
Golden Stars (See Bloomeria)
Gooseberry Seed. 93
Gourd 81
Grapefruit Trees.128
Grasses, Field ... 55
Grasses, Ornamental 81
Grinders and Cutters 158, 159
Grevillea 91
Grevillea, Plants..125
Guava Seed 93
Gypsophila.....72, 85
Gypsophila, Plants 122
Habrothamnus ...125
Hagari 49
Hakea 91
Hare's Tail Grass (See Lagurus)
Heather 125
Heartsease (See Pansy)
Hedera 117
Hedge Plants 124-126
Helianthus 72
Helianthus, Plants 122
Helichrysum 81

INDEX

Heliotrope 112
Helioptropium ... 85
Hemerocallis 122
Hemp 59
Herbaceous Plants 120, 123
Herbs 28
Heuchera 85
Hibiscus 72, 85
Hibiscus, Plants..125
Holly Fern (See Cyrtomium)
Hollyhock 85
Hollyhock Plants.122
Honesty 85
Honeysuckle (See Lonicera)
Honeysuckle, Plants 117
Hop, (See Humulus)
Horseradish Sets.128
Hoya 118
Humulus 77
Hunnemannia 85
Hyacinthus 85
Hydrangeas 110
Hypericum 125
Ice Plant 72
Imperial Japanese Morning Glory.. 77
Incubator Parts..154
Incubators 153
Indoor Decorative Plants 128
Inoculation 43
Insecticides and Fungicides.130, 133
Ipomoea 77
Ipomoea, Plants..118
Ipomopsis 85
Iris 116
Ismene 115
Isolepis 81
Italian Clover.... 53
Italian Rye Grass. 55
Ivy 117
Jacaranda 91
Jacaranda, Plants 125
Jacob's Ladder (See Polemonium)
Japanese Clover.. 53
Japanese Day Lily 122
Jasmine 119
Jerusalem Cross (See Lychnis)
Jerusalem Star (See Cerastium)
Job's Tears (See Coix)
Juniperus 91
Kaffir Corn..... 49
Kale 28
Kaulfussia 72
Kennedya 77
Kennedya, Plants.119
Kentia 127
Kentucky Blue Grass 55, 62
Kochia 72
Kohlrabi 28
Kudzu Vine 77
Labels 135
Lagerstromia 125
Lagunaria 125
Lagurus 81
Lantana 85
Lantana, Plants..110
Larkspur 72
Larkspur (See Delphinium)
Lasiagrostis 81
Lathyrus 78, 90
Lathyrus, Plants.119
Laurel (See Prunus)
Laurus 125, 126
Lavatera 72
Lavender 85
Lawn, How to Make 62
Lawn Mowers ...139
Layia 90
Leek 28
Lee's Remedies ..151
Lemon Trees 128
Lentils 59
Leptospermum ..125
Leptosyne 90
Lespedeza 43
Lettuce 11, 29
Libonia 122
Librocedrus 91
Librocedrus, Plants 127
Ligustrum 91
Lilacs 90
Lilacs, Plants ...125
Lime Trees 128
Limnanthes ...72, 90
Linaria 85
Linum 72
Linum, Plants ...125
Loasa 78
Lobelia 72, 86
Lonicera 78
Lonicera, Plants 126
Lopezia 122
Love Grass (See Eragrostis)
Love Grove (See Nemophila)
Love-Lies-Bleeding 72
Lupinus ...72, 86, 90
Lychnis 86
Lycoris 115
Maclura 93
Magazines 166
Magnolia 91
Magnolia, Plants.125
Mahonia 126
Maiden Hair Fern (See Adiantum)
Maidenhair Tree (See Ginkgo)
Maize, Rainbow.. 81
Malope 72
Mammoth Red Clover 53
Mandevillea 78
Mandevillea, Plants 119
Mangel Beets ... 56
Marguerites 122
Marigold 72
Marigold, Pot (See Calendula)
Marvel of Peru.. 86
Mathiola 72
Matilija Poppy (See Romneya)
Matricaria 86
Maurandia 78
Meadow Foam (SeeLinnanthes)
Melia 93
Melilotus Alba.53, 55
Melilotus Indica 53, 54
Melons, Water 13, 32, 33
Mentzlia 90
Mesembryanthemum 72
Mexican Poppy (See Argemone)
Mexican Poppy (See Hunnemannia)
Mignonette 73
Millet 59
Milo Maize, Seed 49, 50
Mimulus 86
Mina 78
Mock Orange (See Gourd)
Momordica 81
Monkey Flower (See Mimulus)
Monk's Hood (See Aconitum)
Moon-flower (See Ipomoea)
Moon Vine 118
Morning Glory (See Convolvulus)
Mother of Thousands (See Saxifraga)
Mourning Bride (See Scabiosa)
Muehlenbeckia ..119
Musa 93
Mushroom Spawn 30
Musk Plant 86
Muskmelon 12, 30, 31
Mustard 30
Myosotis 86
Myrtus 126
Nandina 126
Nasturtium ...73, 78
Natal Grass 55
Nemesia 73
Nemophila 73, 90
Nephrolepis 127
Nicotiana 73
Nierembergia 86
Nettle Plant (See Loasa)
Nierembergia, Plants 126
Nigella 73
Nolana 73
Nozzles, Spray...138
Nursery Supplies.135
Oak (See Quercus)
Oats 58
Oenothera 86
Okra 35
Oleanders 126
Onions 14, 34, 35
Onion Sets 35
Orange Trees 128
Orchard Supplies.135
Oriental Poppies.122
Ornamental Grasses 81
Ornamental Tobacco (See Nicotiana)
Ostrich Plume Fern (See Nephrolepis)
Oxalis 86
Oyster Plant 39
Paint Brush (See Cacalia)
Painted Tongue (See Salpiglossis
Palm and Other Decorative Plant Seed 93
Palms 127
Pansy 87
Paris Daisy (See Chrysanthemum)
Parkinsonia 91
Parsley 35
Parsnip 35
Passiflora 78
Passion Flower (See Passiflora)
Paulownia 93
Peanuts 59
Peas 6, 36
Peas, Field....55, 57
Pelargonium 88
Pelargonium Plants 116
Pentstemon ...88, 90
Penstemon, Plants 122
Pepper Grass ... 26
Peppers 15, 37
Pepper, Plants ..128
Perennial Flax (See Linum)
Perennial Plants 120-123
Perilla 73
Petunia 88
Petunia, Plants..122
Phacelia 90
Pheasant's Eye Pink (See Pink)
Phaseolus 78
Pheasant's Eye (See Adonis)
Phlox 74, 88
Phlox, Plants 110
Phoenix 93
Phoenix, Plants..127
Pie Plant (See Rhubarb)
Pig Food 148
Pigeon Bands....158
Pigeon Food.....146
Pin Cushion Flower (See Scabiosa)
Pink, Florists 88
Pinks, Plants 122
Pinus 91
Pinus, Plants 127
Pithecoctineum ..119
Pittosporum 91
Pittosporum, Plants 126
Planet Junior Tools 144
Platanus 126
Plants, Vegetable 128
Platystemon ..74, 90
Plume Grass (See Eulalia)
Plumbago 119
Poinsettia 126
Polemonium 88
Polyanthus 88
Polygala 91
Pomegranate 126
Pomelo Trees ...128
Pop Corn 48
Poppy 65, 74, 89
Portulaca 74
Potatoes 60, 61
Pot Marigold (See Calendula)
Pots, Flower 135
Poultry Bands 158
Poultry Books ...166
Preserving Melon 33
Primrose (See Primula)
Primrose, Arabian (See Arnebia)
Primrose, Evening (See Denothera)
Primula 89
Primula, Plants..122
Privet 126
Prunus 93
Prunus, Plants..126
Pumpkins 38
Pyrethrum 89
Pyrethrum, Plants 122
Quaking Grass (See Briza)
Quercus 126
Rabbit Food.148, 152
Rabbit Jars 156
Rabbit Remedies.152
Radish 15, 39
Rainbow Maize .. 81
Rape 59
Red Cedar (See Librocedrus)
Red Clover 53
Red Hot Poker...123
Red Top Grass... 55
Redwood (See Sequoia)
Rhodanthe 81
Rhode Island Bent Grass..... 55
Rhodes Grass ... 51
Rhubarb 38
Rhubarb, Plants.128
Rice 59
Ricinus 75
Robinia 93
Rocket, Sweet ... 89
Romneya 89, 90
Roofing 159
Root Crops 56
Roselle 39
Rose, Campion .. 89
Roses 101-107
Rubber Tree 125
Rudbeckia 89
Rudbeckia, Plants 122
Russellia 122
Rutabaga 42, 56
Rye 55, 58
Rye Grass 55
Saccharines and Non-Saccharines 49
Salpiglossis 75
Salsify 39
Salt Bush 59
Salvia 89
Salvia, Plants.....123
Santolina 89
Sanvitalia 75
Saponaria 75
Saxifraga 89
Saxifraga, Plants 123
Scabiosa 75, 89
Scarlet Flax (See Linum)
Scarlet Larkspur (See Delphinium)
Scarlet Sage (See Salvia)
Schinus 91
Schinus, Plants..126
Sciadopytis 91
Schizanthus 75
Scotch Broom (See Genista)
Sea Lavender (See Statice)
Sea Oats (See Uniola)
Sea Pink (See Armeria)
Seaforthia 93
Sedum 123
Sensitive Plant .. 89
Sequoia 91
Sequoia, Plants ..127
Serissa 126
Sesbania 55
Shallu 49
Shamrock (See Oxalis)
Shasta Daisy ...123
She-Oak (See Casuarina)
Shooting Star (See Dodecatheon)
Shrubs 124-126
Silage 44, 45
Silene 75
Silos 44, 45
Smilax 78
Snail Vine (See Phaseolus)
Snapdragon (See Antirrhimum)
Soap Plant (See Lilac)
Solanum 89
Solanum, Plants.119
Solidago 89
Solidago, Plants..123
Sollya 78
Sorghum 49
Sorrel 40
Soy Beans 55
Speltz 58
Spinach 40
Squash 16, 40
Statice 81-89
Statice, Plants ..123
Sterculia 92
Sterculia, Plants 126
Stevia 89
Stipa 81
Stock Beets 56
Stock Melon 33
Stock, Night Scented (See Mathiola)
Stocks 76, 89
Strawberry Seed. 93
Straw Flower (See Helichrysum)
Streptosolon 119
Striped Japanese Maize (See Zea)
Sudan Grass 51
Sugar Beets 56
Sunflower 59
Sunflower (See Helianthus)
Swainsona 126
Swan River Daisy (See Brachycome)
Swedish Turnip (See Rutabaga)
Sweet Peas....79, 80
Sweet Potato ... 61
Sweet Potato, Plants 128
Sweet Sultan (See Centaurea)
Sweet Vernal ... 55
Sweet William .. 89
Sword Fern (See Nephrolepis)
Sycamore (See Platanus)
Syringas 93
Tacsonia 78
Tagetes 75
Tecoma 119
Telopea 92
Teosinte 59
Texas Plumes (See Ipomopsis)
Thermometers, Incubator 159
Thermometers, Household 159
Thunbergia 78
Thunbergii 119
Thuya 92
Thuya, Plants ...127
Tidy Tips (See Layia)
Timothy 55
Tobacco 59
Tomato 17, 41
Tomato Plants ..128
Torenia 75
Transvaal Daisy (See Gerbera)
Traps 134
Tree Poppy (See Dendromecon)
Tree Protectors..135
Tree and Shrub Seed 91-93
Tricholaena 81
Tritomas 123
Tropaeolum 78
Trumpet Vine (See Bignonia)
Tuberoses 116
Turnips 42
Umbrella Tree ..127
Uniola 81
Valeriana 89
Vegetable Oyster. 37
Vegetable Plants.128
Venus Looking Glass 75
Verbena 89
Verbena, Lemon Scented 89
Verbena, Plants..112
Veronicas 126
Vetch 55, 56
Viburnum 92, 93
Vinca 89
Vinca, Plants ...117
Vines 117-119
Viola 89, 90
Violet (See Viola)
Violets, Plants ..123
Virginia Stock ... 76
Virgin's Bower (See Clematis)
Viscaria 76
Vitadena 123
Vitis 119
Wallflower 89
Washingtonia ... 93
Watermelon 13, 32, 33
Wax Vine 118
Weigelias 126
Wheat 58
Whispering Bells (See Emmenanthe)
White Clover..53, 62
Windflower (See Anemone)
Whitlavia 76
Wistaria 78
Wigandia 89
Wood Meadow Grass 55
Wood Sorrel (See Oxalis)
Woolflower, Chinese 65
Xeranthemum ... 81
Yucca 93
Zea 81
Zinnia 76



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